Continental Engines

REAL GASKET APPLICATIONS

REAL™ GASKET CORP.

LYCOMING

RG-75906: O-235; O-290; O-, IO-, -LIO-320; O-340; O-360-A, -B, -C, -D; IO-360-B; HO-360-A, -B; HIO-360-B; VO-, IVO-360; O-540-A, -B, -E, -F, -G; IO-540-C, -D, -J, -N, -R
RG-67193: IO-360-A, -C, -D; AIO-360-A, -B; HO-360-A, -C, -D; TIO-360-A; LIO-360-C1E6; VO-, GO-, TVO-435; GO-480; IO-, VO-, TVIO-540; IO-720
RG-71450: IO-540-B, -E, -M; TIO-540-A; IGO-540-B; IGSO-540-B; TIO-541-A

PC 210

CONTINENTAL

RG-530162: A-65; C-75, -85, -90, -145, -175; O-200; O-300
RG-532451: E-185; E-225; IO-346; O-470-A, -E, -J; IO-470-J, -K
RG-534857: O-470 except -A, -E, -J; IO-, TSIO-470; IO-, TSIO-520
RG-632310: IO-, TIO-, TSIO-360
RG-632459: GTSIO-520; TSIO-520-BE

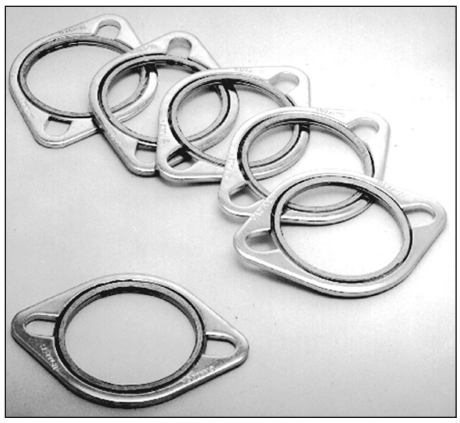
PC 205

FRANKLIN

RG-17727: 4A-235; 6A-335; 6A4-150; 6A4-165, -200; 6A-335

PC 205

Blo-Proof Spiral Wound Gaskets



These special gaskets are V-shaped spirals wound with layers of stainless steel.
For Continental Engines:
A-65; C-85; C-90; O-200; O-300; GO-300; E-185; E-225; O-470-A, -E, -J; IO-470-J, -K
Part Number ..... PC 201 .. SA627429
For all Continental O-470 and IO-470 Series Engines:
....TSIO-470-B; TSIO-520-B, -C;
....GTSIO-520-C, -D (excluding O-470-
....A, -E, -J and IO-470-J, -K)
Part Number ..... PC 201 ... 652458
For Lycoming Engines:
IO-540; IO-540-B, -E, -M, -WD; IGO-540-B; IGSO-540-B; TIO-540, -541 and TGIO-541
Part Number ..... PC 210 LW15486
For all remaining Lycoming Engines:
Part Number ..... PC 210 ... 77611
(Alternate Part Numbers-65321 and 75118)

Carburetor Induction Manifolds

For A-65, C-75, C-85, C-90
Part Number..... U35145

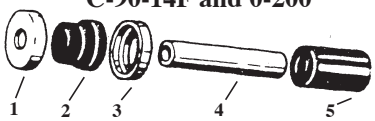
For O-200
Part Number U35145-A1

PC 201

Continental Engine Mount Bushings used on all C & A series Continental engines 8 required per installation (priced each)

Part Number..... PC 201 22387

Continental Engine Mounting Components for C-90-14F and 0-200



Item	Description	Part No.	Qty Reqd.
1.	Washer	530741	8
2.	Bushing	530740	8
3.	Seat	530626	8
4.	Spacer	653695	4
5.	Hose	628555-16	4

PC 201

Commonly Requested Continental Parts for C-Series and 0-200 Engines

Cylinder base seals
A 65-75, C75-85-90, 0-200.
Part Number..... 21477

Intake Gaskets: A 65-75
Part Number..... 649976

Intake Gaskets: C75-85-90, 0-200
Part Number..... 22250

Crankshaft Seal: flanged shaft
A-65-75, C75-85-900, 0-200
Part Number..... 530019

Crankshaft Seal: Tapered Shaft
A-65-75, C75-85
Part Number..... 24321

Tach Seal: A 65-75, C75-85-90-0200
Part Number..... SA642714

Oil Sump Gasket: A65-75, C75-85-90-0200
Part Number..... 652248

Rocker Cover Gasket: A65-75, C75-85-90-0200..... 653728

Celebrating Our 59th Year of Service to General Aviation!
Contact Us for the parts you need at:
1-888-433-5433

Commonly Requested Continental C-Series and 0-200 Parts (continued)

Carb to Intake Gasket
A65 thru C-90 & 0-200
Part Number..... 21051

Carb to Airbox Gasket
A65 thru C-90 & 0-200
Part Number..... SA21323

Intake Hose Small
A65 thru C-90 & 0-200
Part Number..... 21185

Intake Hose Large
A65 thru C-90 & 0-200
Part Number..... SA22800

Pushrod Housing Gasket:
A65 thru C-90 & 0-200
(not used of -8 and -8f) Part No. 530928

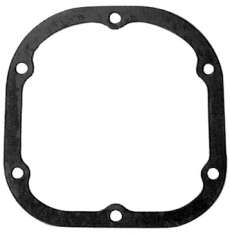
Connector Pushrod Housing
A65-75, C75-85-90, & 0-200
Part Number..... 539840

PC 201

Gasket Oil Screen
A65-75, C75-85-90, 0-200.
Part Number..... PC 590 MS35769-48

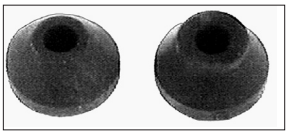
Gasket Oil Screen Housing Plug:
A65-75, C75-85-90, 0-200
Part Number..... PC 590 MS35769-11

Surplus Continental Rocker Cover Gaskets



For Continental Engines: A-65, A-75, C-85, C-90, O-200, C-145, O-300, (old 3500) 530162S

Lycoming Engine Mount Bushings

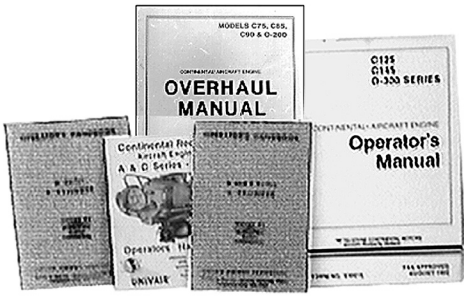


On left, without "collar" 60883
On right, with "collar", 150 & 160 h.p...71032

PC 210

Engine Manuals

Continental Engine Operators Handbooks (glove box size)



Description	*Part No.*
A and C Series, 4-cylinder	**AC4WM**
A and C Series, 6-cylinder	**AC6WM**
C Series, 6-cylinder	**C6WM**
O Series, 6-cylinder	**CO6WM**
IO-470-C	**X30024**
C 125, C 145, O 300	**X30015**

PC 200

Service and Overhaul Manuals

Description	*Part No.*
A-65, A-75 Parts and Overhaul Manual	X30008
"C" Series Maintenance and Overhaul Manual (C-75, C-85, C-90, O-200)	X30010A
"C" Series Parts Manual (C-75, C-85, C-90, O-200)	X30011A
C-125, C-145, O-300 Maintenance and Overhaul Manual	X30013
C-125, C-145, O-300 Parts Manual	X30014
IO-520 Overhaul Manual	X30039A
IO-520 Parts Manual (A,D,E,F,J,K,L)	X30628A
IO-520 Parts Manual (B,BA,BB,C,CB,M,MB)	X30624A
O-470 Overhaul Manual	X30586A
O-470 Parts Manual	X30587A
IO-470 Overhaul Manual	X30588A
IO-470 Parts Manual	X30589A
IO-360 Overhaul Manual	X30594A
IO-360 Parts Manual	X30595A

PC 200

Franklin Engine Manuals

Description	*Part No.*
Service Parts List, 6A4-150-B3 and 6A4-145-A-3 (not illustrated)	F150PM
Service Parts List, 6A4-165-B3/B31 (not illustrated)	F165PM
Service Manual, 6A4-150-B3/B31 and 6A4-165-B3	FESM
Service Bulletins and Letters	FESB

PC 204

Engine Manuals (continued)

Eisemann Magnetos Handbook

Eisemann LA Series Magneto Handbook and Instructions contains service and overhaul information, exploded views and parts listings.

Part Number..... PC 255 E-LAHB

Lycoming Engine Manuals
operators Manuals

Description	*Part No.*
O-435-A Series	60278
O-235-C, O-290-D/-D2 Series	60297-9
O-540, IO-540 and HIO-540 Series	60297-10
O-, HO-, IO-, AIO-, HIO-, LIO- and TIO-360 Series	60297-12
O-320, IO-320, AIO-320 and LIO-320 Series	60297-16
AEIO-320, 360, and 540 Series	60297-21
O-320 "76" Series	60297-22
O-360 "76" Series	60297-25
TO-360 "76" Series	60297-26

PC 209

Overhaul Manuals

Description	*Part No.*
Integral Accessory Drive Models	60294-6
Direct Drive Models	60294-7
"76" Series Models	60294-9

PC 209

Parts Manuals

O-145 and GO-145 Instructions and Parts Manual and Magneto Section	L145PM
O-290-D Series	PC102-1
O-320-A, -B, -D, -E, IO-320-B, -E, and LIO-320	PC103
O- and HO-360, IO-, HIO-, AIO- and TIO-360	PC106
O-320-A and O-320-E	PC203-1
O-320-B and O-320-D	PC203-2
O-235	PC302
O-360-A	PC306-1
O-360-B, -C, -F, LO and TO-360 Series	PC306-2
IO-, AIO-360-A and -B Series	PC406-1
IO-360-C, -J1A6D, LIO-360-C, HIO-360-A, -B, -C, -D, -E, -F, TIO-360-A, AEIO-360-A1E, -B1G6 and -H1A Series	PC406-2

PC 209

TELEDYNE CONTINENTAL® AIRCRAFT ENGINE

service bulletin

M91-8
Supersedes M89-13

Technical Portions Are FAA Approved

10 July 1991

SUBJECT: **RECOMMENDED OVERHAUL PERIODS FOR ALL TELEDYNE CONTINENTAL MOTORS AIRCRAFT ENGINES.**

MODELS AFFECTED: All

COMPLIANCE: Overhaul

Thousands of hours of operating experience indicate that Teledyne Continental Motors (TCM) aircraft engines, when operated within prescribed limitations, instructions and recommendations, can be operated between overhauls for the number of hours listed in the following table. The overhaul periods listed are recommendations only. They are predicated on the **use of genuine TCM parts**, compliance with all applicable Service Bulletins and ADs, as well as all required preventive maintenance, periodic inspections, manufacturer's specifications, and the determination by a qualified mechanic that the engine is operating normally and is airworthy. The accomplishment of cylinder leakage checks and spectrographic oil analysis may be helpful in making this determination. Any operation beyond these periods is at the operator's discretion and should be based on the inspecting mechanic's evaluation of engine condition and operating environment. Calendar time also affects this condition and should be taken into consideration.

Particular attention should be paid to throttle response, power, smoothness of operation, oil consumption, to the proper use and maintenance of oil and air filters, and adherence to the recommended oil change periods. Emphasis should also be placed on recommended fuel management. These recommended overhaul periods in no way alter TCM's warranty policies.

Strict adherence to the latest Major Overhaul 100% Replacement Parts Service Bulletin is required.

Overhaul periods may vary depending upon the quality of parts and workmanship incorporated into the overhaul of an engine. TCM is unable to provide specific guidelines concerning the effect **non-TCM supplied parts** have on the overhaul periods listed in the following table and makes no recommendation with respect to overhaul periods for engines which have been overhauled, repaired or modified in a manner inconsistent with the specifications, limits and instructions set forth in the latest applicable TCM overhaul manual, parts catalog and service bulletins.

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TELEDYNE CONTINENTAL MOTORS
Aircraft Products
P.O. Box 90 • Mobile, Alabama 36601

Engine Model	① Overhaul Period	Engine Model	① Overhaul Period	Engine Model	① Overhaul Period
A65, A75 Series	1800 hours	IO-346 Series	1500 hours	⑤ TSIO-520M, P, R	1600 hours
C75, C85, C90, O-200 Series	1800 hours	IO-360 Series	1500 hours	TSIO/LTSIO-520AE	2000 hours
C125, C145, O-300 Series	1800 hours	IO-360KB	2000 hours	TSIO-520-BE	2000 hours
GO-300 Series	1200 hours	TSIO/LTSIO-360EB, KB	1800 hours	GTSIO-520 Series	1200 hours
E165, E185, E225 Series	1500 hours	TSIO-360FB, GB, LB, MB	1800 hours	GTSIO-520L	1200 hours
W670 Series	1000 hours	TSIO-360 Series	1400 hours	② GTSIO-520L	1600 hours
O-470 Series	1500 hours	IO-520 Series	1700 hours	GTSIO-520M, N	1600 hours
④O-470-U	1500 hours	TSIO-520 Series	1400 hours	6-285 Series	1200 hours
O-470-U	2000 hours	TSIO-520UB, VB, WB, AF, CE	1600 hours	IO-520 Series	1700 hours
IO-470 Series	1500 hours	TSIO-520NB	1400 hours	TSIO-550	1600 hours
TSIO-470 Series	1400 hours	③TSIO-520NB	1600 hours	TSIOL-550	2000 hours
GIO-470A	1000 hours	TSIO-520M, P, R	1400 hours		

1. Excepted are engines employed in aerial dressing, dusting or spraying. For these engines, we recommend a maximum of 1200 hours TBO, or less at operators discretion.
2. Applies to new GTSIO-520L engines having S/N 604701 and subsequent and rebuilt engines having S/N 227809R and subsequent only. Engine may be made eligible for the extended TBO (1600 hours) by installing parts per latest Parts Catalog X30046A and applicable Service Bulletins.
3. Applies to new TSIO-520NB engines having serial numbers 521391 thru 521399, 521400, 521405, 521406, 521411, 521412, 521419 and subsequent and rebuilt TSIO-520 NB engines having serial Numbers 234070, 234074 and subsequent only. Engines may be eligible for the extended TBO (1600) hours by installing parts per latest parts catalog X30580A and applicable Service Bulletins.
4. Applies to new and rebuilt O-470U Spec. 11, 12, 13, 14, 17 and 18.

Note…Extended TBO's are predicated on the use of steel cylinders only, not chrome.

O-470U engines other than those listed above may be made eligible for the TBO increase (2000 hours) by installing P/N 646267A2 or subsequent cylinder and valve assembly, P/N 648029 piston, P/N 649226 ring set, P/N 646277 lifter in the exhaust position, P/N 643779 oil pump, P/N 643749 oil pump gasket, P/N 649923 oil filter and 2 each P/N 402129P003 studs (or Cessna supplied oil filter adapter and associated parts) and any subsequential part number of these parts. Piston pin P/N 539467 must be replaced (not reused). Crankshaft counterweight pin and plate configuration must conform to current parts catalog X30587A. A log book entry will be required and new Spec. No. stamped on engine data plate (Refer to Engine Spec. List below).

ORIGINAL SPEC. #	NEW SPEC. #
O-470U1	13
O-470U2	14
O-470U3	17
O-470U4	18
O-470U5	17
O-470U6	18

⑤ Applies to new and rebuilt TSIO-520-M Spec. 4, 6, 7 and 8; TSIO-520-P Spec. 5 and 6; and TSIO-520-R Spec. 7, 9, 10 and 11.

TSIO-520-M, P & R engines other than those listed above may be eligible for the TBO increase (1600 hours) by installing cylinder & valve assemblies P/N 646657A1 or subequent, piston P/N 648044, ring set P/N 649227, valve lifters P/N 646277 in the exhaust position, throttle body P/N 649185A4, TCM (formerly Bendix) 646957 R.H. magneto, 646958 L.H. magneto, 636951 Harness, or EQ6583 pressurized magneto and harness kit, oil pump assembly P/N 643717-1, P/N 643749 oil pump gasket, and oil filter P/N 649923 (or Cessna supplied oil filter adapter and associated parts) or subsequential part number of these parts.

To install new oil pump remove one (1) each P/N 402159 and P/N 402157 stud. Replace stud P/N 401852 with stud P/N 402129P003 and install spacer P/N 646582-1.35 and P/N 646582-2.00 on existing studs after oil pump is installed. A log book entry will be required and new Spec. No. stamped on engine data plate (Refer to Engine Spec. List below).

ORIGINAL SPEC. #	NEW SPEC. #
TSIO-520P1	5
TSIO-520P2	6
TSIO-520P3	6
TSIO-520M1	6
TSIO-520M2	7
TSIO-520M3	7
TSIO-520R1	9
TSIO-520R3	10
TSIO-520R4	9
TSIO-520R5	10
TSIO-520R6	11

Franklin Engine Parts, 150 and 165 hp.

Commonly Requested Items

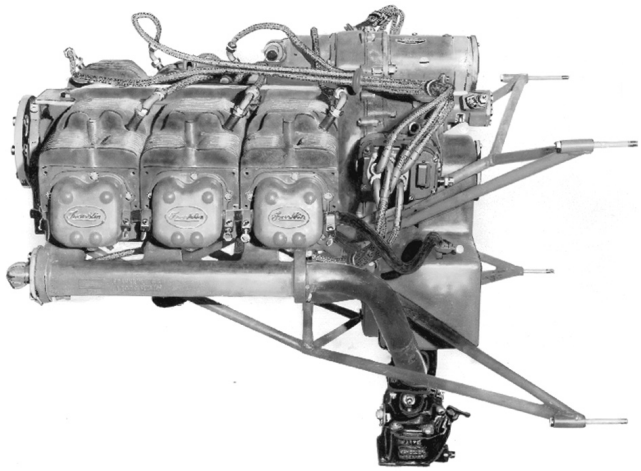
Description	Number Required 150	165	Part No.
Bolt, Propeller	8	8	U17662
Gasket, Carburetor	1	—	10942
Gasket, Crankcase Cover (Real Gasket)	1	1	RG-18532
Gasket, Oil Pan	1	1	RG-10366
Gear, Magneto Shock Absorber (no. 1 thru 32083 engines)	24	16	10601
Gear, Magneto Shock Absorber (no. 32084 and up engines)	2	2	19313
Packing, Valve Lifter Rod Tube (cylinder end—small)	24	12	17864
Packing, Valve Lifter Rod Tube (crankcase end—large)	—	12	17794
Seal, Crankshaft Oil	1	1	17036

Gaskets Required for Top Overhaul

Description	Number Required 150	165	Part No.
Gasket, Inlet Manifold	6	6	17671
Gasket, Valve Cover	6	6	17727
Ring, Cylinder Seal	6	6	17729
Packing, Lifter Rod Tube	24	12	17864
Packing, Lifter Rod Tube (Crankcase)	—	12	17794
Packing, Equalizer	6	2	5456

Bushing Kits

Description	Number Required 150	165	Part No.
Crankshaft Bushing, Standard	1	1	19644
Crankshaft Bushing, .010 Undersize	1	1	19645
Connecting Rod Bushing, .010 Undersize	12	12	18020
Connecting Rod Bushing, .020 Undersize	12	12	18021



Major Overhaul Gasket Set

Description	Part No.
150 hp.	18045
165 hp.	18570

Note: Exhaust gasket NOT included in kit.

Franklin Engine Manuals

Description	Part Number
Service Parts List, 6A4-150-B3 and 6A4-145-A-3 (not illustrated)	F150PM
Service Parts List, 6A4-165-B3/B31 (not illustrated)	F165PM
Service Manual, 6A4-150-B3/31 and 6A4-165-B3	FESM
Service Bulletins and Letters	FESB

PC 204

TEXTRON Lycoming

Reciprocating Engine Division/
Subsidiary of Textron Inc.
652 Oliver Street
Williamsport, PA 17701 U.S.A.

SERVICE INSTRUCTION

DATE: July 1, 1992

Service Instruction No. 1009AJ
(Supersedes Service Letter No. L201C)
Engineering Aspects are
FAA Approved

SUBJECT: Recommended Time Between Overhaul Periods.

MODELS AFFECTED: All Textron Lycoming Piston Aircraft Engines.

The following chart shows the established time between overhaul (TBO) for Textron Lycoming piston aircraft engines. TBO's can be established on engines that incorporate GENUINE TEXTRON LYCOMING PARTS only, and are not applicable if the engine contains parts other than those supplied by Textron Lycoming. Service experience, variations in operating conditions, and frequency of operation are some of the factors taken into consideration when a TBO is established. Because of variations in the manner in which engines are operated and maintained, Textron Lycoming can give no assurance that any individual operator will achieve the recommended TBO.

Continuous service assumes that the aircraft will not be out of service for any extended period of time. Refer to latest revision of Service Letter No. L180 if the aircraft is to be out of service for a period of time greater than 30 days.

Because of engine deterioration in the form of corrosion (rust), drying out and hardening of composition materials such as gaskets, seals, flexible hoses, fuel pump diaphrams and abnormal wear during starting on soft metal bearing surfaces due to the loss of a protective oil film during extended periods of inactivity, all engines that do not accumulate the recommended operating hours between overhaul in a twelve (12) year period must be overhauled during the twelfth year.

Although the TBO's shown in the Table on page 2 represent Textron Lycoming's recommendations, owners of some Textron Lycoming piston engines may decide to continue to operate the engine beyond the hours stated, unless otherwise limited by government regulations. It is the responsibility of the party maintaining the engine to decide if it is feasible to operate the engine beyond the recommended number of hours. This decision should be based on knowledge of the engine and the conditions under which it has been operated.

Engine accessories and propellers may require overhaul prior to engine overhaul. This decision, too, is to be made by the party responsible for maintaining the engine or by the accessory manufacturer.

The TBO's in the chart do not apply to engines engaged in crop dusting or other chemical-application flying. These engines should be overhauled at 1500-hour intervals or at recommended TBO, whichever is lower.

Reliability and average service life cannot be predicted when an engine has undergone any modification not approved by Textron Lycoming. The TBO's shown in the table are recommendations for engines as manufactured, without considering any modifications that may alter the life of the engine. The TBO's in no way affect, change, or alter Textron Lycoming's current published warranty policy.

RECOMMENDED TIME BETWEEN OVERHAUL PERIODS

FIXED WING AIRCRAFT		
Engine Models	See Note	Hours
O-235 Series (except -F, -G, -J)	12	2400
O-235-F, -G, -J	13	2000
O-290-D	-----	2000
O-290-D2	-----	1500
O-320 Series (except O-320-H);		
IO-320-A, -E	1,10	2000
O-320-H	10	2000
IO-320-B, -D, -F	4,6,10	2000
IO-320-C	2,4,10	1800
AIO-320 (160 hp)	6,10	1600
AEIO-320 Series	6,10	1600
O-340 Series	1	2000
O-360 Series (except O-360-E);		
IO-360-B, -E, -F (180 hp)	1,4,10	2000
O-360-E	4,10	2000
IO-360-A, -C, -D, -J (200 hp)	4,5,6,10	2000
TO-360-C, -F; TIO-360-C	3	1800
TO-360-E (180 hp)	3,4	1800
AIO-360 (200 hp)	6,10	1400
TIO-360-A Series	3	1200
AEIO-360 Series (180 hp)	6,10	1600
AEIO-360 Series (200 hp)	6,10	1400
O-435; GO-435	-----	1200
GO, GSO-480; IGSO-480	1	1400
O-540-A, -B, -E4A5, -F; IO-540-C, -D	1,10	2000
O-540-E4B5, -E4C5	1,10,11	2000
O-540-G, -H, -J; IO-540-N, -T, -V, -W	10	2000
O-540-L3C5D	2,10	2000
IO-540-A, -B (290 hp)	1,10,11	1400
IO-540-E, -G, -P	1,10,11	1600
IO-540-S, -AA, -AB	2,10	1800
IO-540-J, -R	2,10	1800
IO-540-K, -L, -M	10	2000
IO-540-K1B5, -K1G5	10,11	2000
AEIO-540 Series	6,10	1400
IGO & IGSO-540 Series	-----	1200
TIO-540-V, -W, -AE	3,4,11	2000
TIO-540-C, -AA, -AB, -AF	3,4,7,11	2000
TIO-540-A, -F, -J, -N, -R, -S, -U	3,4,11,14	1800
TIO-541-A (310 hp)	3	1300
TIO-541-E (380 hp)	3,9	1600
TIGO-541 (425 hp)	3	1200
IO-720 Series	10,11	1800
ROTARY WING AIRCRAFT		
O-320-A2C, -B2C	-----	2000
O-360-C2B, -C2D; HO-360; HIO-360-B	-----	1500
HIO-360-A, -C, -D, -E, -F Series	-----	1500
VO-360-A Series	-----	600
VO-360-B; IVO-360	-----	1000
VO-435-A Series	-----	1200
VO-435-B Series	-----	1200
TVO-435 Series	3	1000
VO-540 Series	8	1200
IVO-540 Series	-----	600
TVO, TIVO-540 Series	3,8	1200

NOTES

1. Only engines built with 1/2 inch dia. exhaust valve stems. Engines of this series with 7/16 inch dia. exhaust valves should not exceed 1200 hours between overhauls regardless of the type of operation. New and remanufactured engines built with 1/2 inch dia. exhaust valve stems are identified, respectively, by serial number and date in the latest edition of Service Instruction No. 1136.

2. These engines are designed to incorporate exhaust turbocharging.

3. Turbochargers may require removal, prior to engine overhaul, for carbon removal and repair.

4. Engines with reverse rotation have same overhaul times as corresponding normal rotation models.

5. 1200 HOURS: Engines that do not have large main bearing dowels should not be operated more than 1200 hours between overhauls.

1400 HOURS: Engines that have large main bearing dowels may be operated to 1400 hours between overhauls. These include engines with serial numbers L-7100-51A and up, and L-101-67A and up; engines which are in compliance with the latest edition of Service Bulletin No. 326; and remanufactured engines shipped after January 26, 1970.

2000 HOURS: Engines that have large main bearing dowels and redesigned camshafts may be operated to 2000 hours between overhauls. These include engines with serial numbers L-9762-51A and up; IO-360-C1E6 engines with serial numbers L-9723-51A and up; LIO-360-C1E6 engines with serial numbers L-524-67A and up; engines that are in compliance with the latest edition of Service Bulletin No. 326 and Service Instruction No. 1263. Remanufactured engines shipped after October 1, 1972 may be operated to 2000 hours between overhauls except those with serial numbers L-2349-51A and L-7852-51A which do not have the redesigned camshaft and must not exceed 1400 hours operating time between overhauls.

6. The reliability and service life of engines can be detrimentally affected if they are repeatedly operated at alternating high and low power applications which cause extreme changes in cylinder temperatures. Flight maneuvers which cause engine overspeed also contribute to abnormal wear characteristics that tend to shorten engine life. These factors must be considered to establish TBO of aerobatic engines; therefore it is the responsibility of the operator to determine the percentage of time the engine is used for aerobatics and establish his own TBO. The maximum recommended is the time specified in this instruction.

7. TIO-540-C series engines with serial numbers L-1754-61 and up, TIO-540-C series engines that were remanufactured or overhauled at Textron Lycoming, Williamsport, PA after March 1, 1971 and TIO-540-C series engines that have been modified to incorporate large main bearing dowels as described in the latest revision of Service Instruction No. 1225 may be operated to 2000 hours. Engines that do not incorporate this modification must not exceed 1500 hours between overhauls.

8. VO, TVO and TIVO-540 engines built with P/N 77450 connecting rods as described in the latest edition of Service Bulletin No. 371 may be continued in service to 1200 hours. Engines that do not incorporate this new connecting rod are restricted to 1000 hours for VO-540 models and 900 hours for TVO and TIVO-540. See latest edition of Service Bulletin No. 371 for improved connecting rod assembly.

9. TIO-541-E series engines with serial numbers L-804-59 and up, remanufactured engines shipped after March 1, 1976 and all engines that incorporate the improved crankcases and cylinder assemblies described in the latest revision to Service Bulletin Nos. 334 and 353 may be operated for 1600 hours before overhaul. Engines not in compliance with these requirements are limited to 1200 hours recommended time between overhaul.

10. Some engines in the field have been altered to incorporate an inverted oil system in order to perform aerobatic maneuvers. Whenever this modification is done to an engine, the TBO of the engine must be determined in the same manner listed for AEIO engines of the same model series.

11. If an engine is being used in "scheduled frequent" type service but not for flight training, and accumulates 60 hours or more per month, and has been so operated consistently, add 200 hours to TBO time.

12. To qualify for the 2400 hour TBO, high-compression O-235's must have the increased strength pistons (P/N LW-18729). See latest issue of Service Letter L213.

13. The high-compression O-235-F, -G, and -J series do not have the increased-strength pistons (P/N LW-18729); therefore, they do not qualify for the 2400-hour TBO.

14. TIO-540-A series engines with serial numbers L-1880-61 and up, TIO-540-A series engines that were remanufactured or overhauled at Textron Lycoming, Williamsport, PA after March 1, 1971 and TIO-540-A series engines that have been modified to incorporate large main bearing dowels as described in the latest revision of Service Instruction No. 1225 may be operated to 1800 hours. Engines that do not incorporate this modification must not exceed 1500 hours between overhauls.

Brackett Air Filters

Brackett filters are FAA/PMA approved—and STC-SA71GL, STC-SA693CE, and STC-SA12CE Approved.

Polyurethane as the filtering media combined with Brackett's patented "Wettir Agent" will give your engine protection from dust and dirt to prolong engine life and c maintenance. The Brackett polyurethane aircraft element can be changed without replacir the complete air filter assembly.

Now, induction systems, cylinders, and combustion chambers can be kept almost total free of harmful contaminants with correct fitting of Brackett aviation air filters.

BRACKETT AIR FILTER APPLICATION CHART

Manufacturers' Aircraft Models	Brackett Filter Assy. No.	Filter Gasket Part No.	Brackett Element Number
Aero Commander			
A-9, A9A, A9B	BA-104		BA-3
100, 100A	BA-8910	BA-8910-02	BA-8905
100, 180	BA-3910		BA-3905
112, 112A, 112B	BA-3910		BA-3905
112TC, 112TC-A, 114, 114A	BA-4010		BA-4005
500	BA-152		BA-152E
500A, -B, 560F, 680F, 680FL	BA-151		BA-151E
680FLP, 500U	BA-151		BA-151E
580, 580A, 560E, 680	BA-2610L/R		BA-2605L/R
Aircoupe			
415C, -CD, -D, -E, -G	BA-8810		BA-8805
F-1, A-1, A2-A	BA-4106	BA-4101	BA-4108
Beech			
23, A23, A23A, A23-19, A23-19A, A23-24, B23	BA-104		BA-3
C-23, C-24R, A24R, B24R, B19, C-23A	BA-7510	BA-7504	BA-7305
33, A33, B33, C33, E33, F33	BA-7110	BA-7104	BA-7112
C33A, E33A, E33C, F33A, F33C, G33B	BA-7210	BA-7206	BA-7112
35, A35, B35 thru SN D2605	BA-7310	BA7303	BA-7305
B35, C35, D35, E35, F35, G35, H35, J35, K35, M35, N35, P35, 35R	BA-7110	BA-7104	BA-7112
S35 thru SN D7671	BA-7410	BA-7406	BA-7112
S35, V35, V35A, V35B, 36, A36, A36TC, B36TC, A45 (T-34), B45 (T-34A), D45 (T-34B), W/STC SA1450SW	BA-7210	BA-7206	BA-7112
50, B50, C50, D50, D50A, D50B, D50C, D50E	BA-4610		BA-4805
55, A55, B55	BA-7610	BA-7603	BA-7605
C55 SN TE1-451, D55, SN TE452-767, E55, SN TE788-1078, 58 thru SN TH740	BA-6210-1		BA-6205
E55, E55A, SN TE1079 and up	BA-7710	BA-7703	BA-7705
58, 58A, SN TH741 and up	BA-7710	BA-7703	BA-7705
A65, 70, 65-B80, -B88	BA-100	BA-1003	BA-7
76	BA-7010	BA-7010-03	BA-7005
77	BA-2010	BA-2002	BA-6108
95, B95, B95A, D95A	BA-7810		BA-7805
Bell			
47G-2, -2A, -3, 47G-2A1, 47J, 47J2, 47J-2A, 47G-3B, -3B1, -3B2, -3B2A	BA-102		BA-2
47G-4A, 47G-4, 47G-5, 47J-2, 47J-2A, 47G-3B, 47G-3B1, 47G-3B2	BA-103		BA-9
Bellanca			
14-19-3A	BA-8110	BA-8101	BA-8103-1
17-30	BA-8110		BA-3
17-31	BA-104		BA-3
17-30A	BA-8110		BA-3
300	BA-104		BA-3
Brantly			
B-2, B-2B	BA-104		BA-3
Britten Norman			
BN-2A-5 with Lycoming O-540-E4C5 engines, BN-2, -2A, -2A-2, -2A-3, -2A-8, -2A-9, -2A-20, -2A-21, -2A-27, -2B-20, -2B-21, -2B-26, -2B-27	BA-104		BA-3
Cessna			
120, 140, 140A, 150, 150A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M, A150M, 152, A152	BA-4106	BA-4101	BA-4108
170, 170A, -B, 172, 172A, -B, -C, -D, -E,-F, -G, -H, -I, -K, -L, -M.	BA-5110	BA-5103	BA-6108
172-N, -P	BA-5110A	BA-5103	BA-6108
R172K	BA-111		BA-24
172RG	BA-5810	BA-5803	BA-5805
175, 175-A, -B, -C	BA-101	BA-1102	BA-8
177, 177A, -B, RG, F177RG	BA-5710	BA-5703	BA-5705
180 (1953-1955)	BA-8010	BA-8002	BA-8005
180A, -B, -C, -D, -E, -F, -G, -H, -J, -K	BA-8110	BA-8101	BA-8103-1
182, 182A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -P, -Q, -R	BA-8110	BA-8101	BA-8103-1
R-182, TR-182, T-182	BA-2510	BA-2503	BA-2505
185, 185A, -B, -C, -D, -E, A185E, A185F	BA-8110	BA-8101	BA-8103-1
188, 188A	BA-114		BA-14A
190, 195, 195-A, -B	BA-8410		BA-8405
205, 205-A	BA-2110	BA-2103	BA-2305
P206, -A, -B, -C, -D, -E, U206, -A, -B, -C, -D, -E, -F, -G	BA-2210L	BA-2206	BA-2205L
TP206A, -B, -C, -D, -E, TU206A, -B, -C, -D, -E, -F, -G	BA-2410		BA-2405
207, 207A	BA-2210L	BA-2206	BA-2205L
T207, T207A	BA-2410		BA-2405
210, 210A, -B, -C	BA-2110	BA-2103	BA-2305
210D, -E, -F, -G, -H, -J, -K, -L, -M, -N (to SN 64135 without AIR)	BA-2210L	BA-2206	BA-2205L
	BA-2210R	BA-2206	BA-2205R
210N (SN 64135 and up or with AIR), 210R	BA-2410		BA-2405
P210, all	BA-8710	BA-8703	BA-8705
T-210F, -G, -H, -J, -K, -L, -M, -N, -R	BA-2410		BA-2405
T-303	BA-5210	BA-2503	BA-5205
310, -A, -B	BA-2110	BA-2103	BA-2305
310F, -G, -H, -I, -J, -K, -L	BA-2310	BA-2303	BA-2305
310N, -P, -Q, T310P, T310Q	BA-107		BA-12
310R	BA-117		BA-17
T310R	BA-108		BA-13
337, -A thru -H	BA-111		BA-24
P337, T337, front engine	pending		
P337, T337, rear engine	pending		
340, 340A	BA-109		BA-22
401, 401A, 401B to SN 300	BA-107		BA-12
402, 402A, 402B to SN 800	BA-107		BA-12
402B, SN 801 and up	BA-108		BA-13
402C	BA-109		BA-22
404	BA-130		BA-30
411, 411A	BA-3810		BA-3805
414, 414A	BA-109		BA-22
421, 421A, -B, -C	BA-108		BA-13
L-19	BA-101	BA-1102	BA-8
T-50, AT-17, UC-78, JRC-1	BA-2710		BA-2705
Champion			
8KCAB, 8GCBC, 7KCAB, 7GCBC, 7GCAA	BA-8110	BA-8101	BA-8103-1
7GCAA, 7GCBC	BA-105		BA-11
7KCAB, 8KCAB, 7ECA	BA-106		BA-11
7GC, 7GCA, 7GCBC	BA-104		BA-3
7HC, 7KC	BA-104		BA-3
7ECA with Continental O-200A engine, 7ACA, 7ECA, 7FC, 65CA	BA-4106	BA-4101	BA-4108
Christen			
A-1	BA-4105-1		BA-4108
DeHavilland			
DHC-2 (L-20)	BA-8210-1	BA-8208	BA-8205

(Chart is continued on next page.)

BRACKETT AIR FILTER APPLICATION CHART (continued)

Manufacturers' Aircraft Models	Brackett Filter Assy. No.	Filter Gasket Part No.	Brackett Element Number
Eagle Duster			
all models	150017-1		BA-129-1
Great Lakes			
2TIA-2	BA-101	BA-1102	BA-8
Grumman American			
AA-1, -1A, -1B, -1C, -5	BA-4210	BA-4101	BA-4108
AA5A	NR		BA-19
AA5B Tiger, GA-7	BA-120		BA-20
Agcat G164, G164A	BA-8210	BA-8101	BA-8205
G164B	BA-105		BA-10
Hiller			
UH-12, UH-12A, -B, -C, -D, -E	BA-102		BA-2
Helio			
H295	NR		BA-21
Hughes			
269A, -A-1, -B, -C	BA-102		BA-2
Lake			
LA4, LA4-200	BA-3110	BA-3103	BA-7305
Luscombe			
8, 8A thru 8F, T8F	BA-4106	BA-4101	BA-4108
Maule			
M-4-210, M-4-210C	BA-111		BA-24
M-4-210S, -210T, M-5-210C, MA-4, M-4C, -4S, -4T, -4-220, -4-220C, -4-220S, -4-220T, -4-180C, -4-180S, -4-180T, M-5-220C, -235C, -180C, -210TC, M-6-180, -235, MX7-180, M-7-235	BA-6110	BA-5103	BA-6108
Mooney			
M-10	BA-4106	BA-4101	BA-4108
M-18C	BA-5110	BA-5103	BA-6108
M20, M20A, -B, -C, -D, -G	BA-6110	BA-5103	BA-6108
M20E, -F	BA-6310		BA-6305
M20J	BA-6210	BA-6203	BA-6205
Navion			
G, H	BA-4310	BA-4303	BA-4305
A	BA-113		BA-25
B	BA-116		BA-26
North American			
AT6 (SNJ)	BA-8310		BA-8305
Partenavia			
P65, P68B, P68C	pending		
Piper			
600, 601	NR		BA-4
J-3, J-4, J-5	BA-4106	BA-4101	BA-4108
PA-11, -11S, -12, -12S	BA-4106	BA-4101	BA-4108
PA-16, -17, -18, -19	BA-4106	BA-4101	BA-4108
PA-18-150, PA-18A-150, PA-18S-150, SN6964 and up, with item 110 installed	BA-112		BA-13
PA-20, 115 and 135 hp.	BA-4106	BA-4101	BA-4108
PA-22, all	BA-4106	BA-4101	BA-4108
PA-23, 150 and 160 hp.	BA-3110A		BA-7305
PA-23, 235 and 250 hp.	BA-104		BA-3
PA-23-250, PA-E23-260 SN 27-2505 and up	BA-115		BA-15
PA-23-250, PA-E23-250 with turbo Lycoming engine	BA-3510	BA-3510-06	BA-3505
Piper (continued)			
PA-23-250 with A/R research turbo	pending		
PA-24-180 up to SN 1476	BA-3110A		BA-7305
PA-24-250 up to SN 1476	BA-3210		BA-3205
PA-24, 180 and 250 hp. SN 1477 and up, PA-24-250 SN 103-1476 with Piper kit 754-285 installed, PA-24-260 SN 4000-4802 except 4783	BA-104		BA-3
PA-24-280C	BA-4510	BA-4502	BA-4505
PA-25, 235 and 260 hp.	BA-104		BA-3
PA-28-140, -150, -160, -180, -235	BA-104		BA-3
PA-28-181, -201T	BA-104		BA-3
PA-28R-201T	BA-104		BA-3
PA-28RT-201T	BA-104		BA-3
PA-28R-201, PA-28RT-201, PA-28R-180, PA-28R-200	BA-105		BA-10
PA-28-151, -161	NR		BA-16
PA-28-236 SN 7911283 and up	BA-2910	BA-2910-06	BA-2905
PA-28 SN 7011001-7911283 with modification kit 763928V	BA-2910	BA-2910-06	BA-2905
PA-30-160	BA-105		BA-10
PA-30 with Ray Jay turbo	pending		
PA-31, PA-31 300 to 350 hp.	BA-100	BA-1003	BA-7
PA-31P, PA-31P-350	BA-3310	BA-3310-03	BA-3305
PA-32-260	BA-104		BA-3
PA-32-300 SN 76-64001 and up, PA-32-301, PA-32R-300, PA-32RT-300, PA-32R-301	BA-104		BA-3
PA-32-300 with IO-540-K1A5	BA-115		BA-15
PA-32RT-300T	BA-100	BA-1003	BA-7
PA-32-301T, PA-32R-301T	BA-3010	BA-3010-02	BA-7
PA-34-200T, -220T	BA-104		BA-3
PA-34-200 with Lycoming IO-360-C01E6 or LIO-360-C1E6	BA-105		BA-10
PA-36-300 with Continental 6-285-B, PA-36-375	BA-104		BA-3
PA-38	BA-4106	BA-4101	BA-4108
PA-39	BA-105		BA-10
PA-39 with Ray Jay turbo	pending		
PA-44	BA-105		BA-10
PA-44-180T	BA-3510	BA-3510-06	BA-3505
Robinson			
R-22	BA-110		BA-23
Stearman			
all series 75	BA-118		BA-18
Stinson			
108, 108-1, -2, -3	BA-9110		BA-9105
Swift			
GC-1A, GC-1B	BA-4106	BA-4101	BA-4108
GC-1B with Lycoming O-320 or Continental O-300	BA-5110	BA-5103	BA-6108
Taylorcraft, all models	BA-4106	BA-4101	BA-4108
Varga			
2150A	BA-4106	BA-4101	BA-4108

Reasons to Choose a Brackett Filter

- FAA/PMA approved—83 different models
- Our patented treated foam has a 98 percent efficiency rating.
- You replace only the low-cost, throw-away element.
- Easy, accurate servicing by replacement at specified times
- Readily available to all F.B.O.s distributed by most major aircraft supply houses.
- Dual-stage foam element increases dust holding capacity.
- It's a proven filter. Brackett air filters have been in service on aircraft and helicopters since 1968. At present, Brackett foam filters are installed as factory original equipment on eleven current production aircraft and one helicopter.
- Brackett's foam filter is unaffected by water (approved for sea planes). It has no pleats to store dirt and is abrasive resistant.
- Brackett foam filters have exclusive filter frame safety features.

NOTE:

Our STCs require the elements to be replaced every 12 months, regardless of the flying time, or more often as per service instructions.

Don't Neglect Your Air Filter!

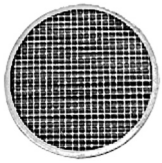
Check the entire intake system for leaks. Here is a quote from a Lycoming engine flyer:

"Dust or some form of dirt is frequently the principle factor in premature piston ring and cylinder wear. If a worn or poorly fitting air filter allows as much as a tablespoon of abrasive material into the cylinders, it will cause wear to the extent that an overhaul will be required."

Air Filters — Air Maze Original Paper Type

UNIVAIR can now supply a wide variety of air filters for light planes.
Protect yourself and your engine by replacing your air filter regularly.

For Continental C-75, C-85, Ercoupe



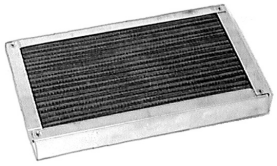
Part Number..... PC 275 40585-1

For Continental A-65, A-75, C-85, C-90, and C-125; Luscombe 8A thru 8F, Taylorcraft, Cessna 140, Swift GC-1A and GC-1B, etc.

Part Number (40599)..... PC275 ... 600314
Stud..... 24306
Cross Pin (Old 24308)..... 652021
Gasket..... SA35923
Fastener on box..... 531050

PC 201

For Franklin 150-165 and Stinson 108 series



Part Number..... PC 180 6221805

If you can't find the part you need, give us a call. We're here to help you with all of your classic aircraft needs.

Info: 1 (303) 375-8882
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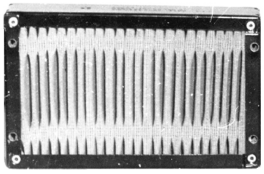
website: www.univair.com

For Aeronca 7AC and 11AC

Part Number..... PC 102 U2-849

For O-320 Lycoming Engine in Piper Apache



Part Number (120120)..... PC 150 17775-000

Piper Aircraft Filters

For J-3 thru J-5, PA-11, PA-15, PA-17, PA-18 (90 hp., 105 hp, 125 hp. models) and PA-22 (125 hp. models)

Part Number (40599)..... PC 275 600314

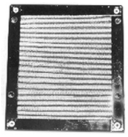
For PA-18 and PA-18A (150 hp. models) SN 18-6964 & up

Part No..... PC 150 U454-118

For PA-18 (135 hp. and 150 hp.models)

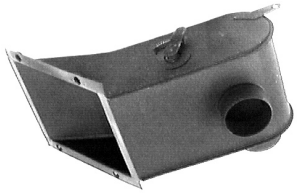
Part Number (460-638)..... PC 275 120086

For PA-22 (108 hp., 135 hp., 150 hp. and 160 hp.)



Part Number (13681)..... PC 275 121494

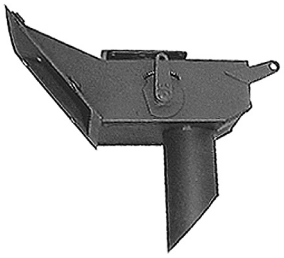
Carburetor Air Intake Box for 145 Swift, 170 Cessna



Part Number..... PC 201 530852

FAA/PMA Approved Carburetor Air Boxes for 4 Cylinder Continental Engines

For Continental A-65, C-75, 85 & 90

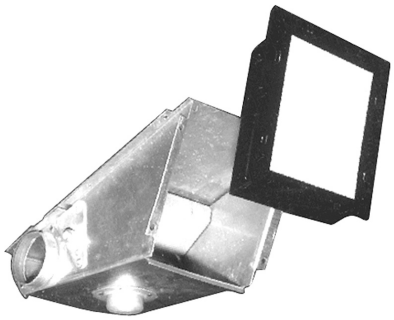


For C75-8, C75-8F, C75-12, C75-12F, C85-8, C85-8F, C85-12, C85-12F, C90-8F, C90-12F Engines..... UA50256

For A65-1, A65-3, A65-6, A65-7, A65-8, A65-8F, A65-9, A65-9F, A65-12, A65-12F, A65-14, A65-14F Engines..... UA50495

PC 201

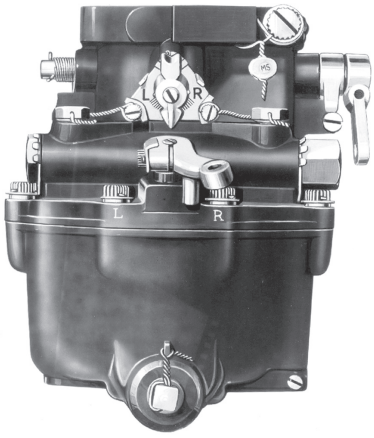
Carburetor Air Intake Box and Filter FAA/PMA Approved



Complete Assembly for the Aeronca 7AC-11AC (includes Air Filter).... U4-601-1
Filter only..... U2-849

PC 102

Precision Carburetor's
(formerly Marvel-Schebler)



UNIVAIR has hundreds of Precision (formerly Marvel-Schebler) carburetor parts in stock; call us at (303) 375-8882 with your specific requirements.

Parts and Service Manual

This manual is extremely valuable in any service department and covers:

- **detailed parts list of carburetor's as used on various models of engines**
- **overhaul data**
- **service bulletins**
- **exploded-view drawings of the different models**

Part Number.....MANUAL

CARBURETOR REFERENCE INFORMATION

ENG. MFG. PART NO.	CARBURETOR	ENG. MODEL MODEL	PRECISION PART NO.
CONTINENTAL			
626789	MA-4-5	GO-300-A-, A1, -C-, C6-, D-, D2-, D6	10-4171
627365	MA-3PA	A65-8, A75	10-4233
627366	MA-3SPA	C75-8, 12-, C85-12	10-4240-1
637101	MA-3SPA	SUP BY 10-4252-12	10-4252-1
627367	MA-3SPA	C90-8F, 12F, 14F, 16F	10-4252-2
629175	MA-3SPA	C90-12, 18, 28	10-4457-1
641139	MA-4-5	0-470-K, L, R, S	10-4893-1
633028	MA-3SPA	0-200 A, B	10-4894-1
633029	MA-3SPA	O-300-A, C, D, C-145	10-4895-1
637835	MA-3SPA	C90-16F, 8F, 12F, 14F	10-5082
LYCOMING			
61547	MA-3A	0-235-C1, C1B, C2A, C2B, C2C, H2C, L2C	10-3103-1
69250	MA-4SPA	0-320-A1A, A2A, A2B, A3A, B1A, B2A	10-3678-12
72394	MA-4SPA	0-320-A1B, A2A, A2B, A2C, A2D, A3B, A3C, B1B, B2B, B2C, B3B, B3C, D1A, D1AD, D1C, D2A, D2B, D2C, E1A, E2A, E2B, E2C, E3D, A2B	10-3678-32
72740	MA-4-5	0-540-A1A, A1A5, A1B5, A1C5, A1D, A1D5, A2B, A3D5, A4A5, A4B5, A4D5, B1A5, B1B5, B2A5, B2B5, B4B5, E1A5, E4A5, E4B5, E4C5, J1A5D, J1B5D	10-4404
74121	MA-4-5	0-540-B2C5, B2C5D, G1A5, G1A5D, G2A5, H1B5D, H2A5, H2B5D, A15D, B2B5	10-4404-1
77279	MA-4SPA	0-320-A2B, 0-320-B2B, 0-320-D2A, 0-320-E2A	10-4910
LW-16559	MA-4SPA	0-320	10-4910-1
77585	MA-3A	0-235-F1B, 0-235-C2C, 0-235-L2C	10-4953
77939	MA-3PA	0-235-G2A, 0-235-C2A, 0-235-L2C	10-4978-1
78728	MA-4SPA	0-320-A1B, D1F, D2F, E1C, E1F, E1J, E2D, E2F, E2G, E3H, H1AD, D2C, E1A, E2C, E3D, H2AD, A2B, B2B, E2A	10-5009
LW-10196	MA-4-5	0-540	10-5042
LW-10619	MA-3PA	0-235-E2A, C1, H2C, C2A, C2C	10-5050
LW-10540	MA-4-5	0-540-B2B5, B4B5, B4B5D, E4B5D, J2A5D, J3A5D, E4B5, J1A5D, OB-540-E4B5"	10-5054
LW-14016	MA-3PA	0-235-K2A, K2B, L2A, N2A, H2C, L2C	10-5142
LW-15380	MA-4-5	0-360-A4M, 0-360-A1A, 0-360A4A"	10-5193
LW-15986	MA-4SPA	0-320-D2G, D2H, D2J, E2H, H2AD, A2C, D1AD, E1J, E2D, E2G, E3H, D1A, D2A, E3D, E2A, D3G	10-5217

THIS CHART IS FOR REFERENCE ONLY. REFER TO THE AIRCRAFT EQUIPMENT LIST OR CONTACT THE ENGINE MANUFACTURERS FOR SPECIFIC APPLICATION INFORMATION.

Precision Carburetor Parts

Carburetor Part No.	Pump A194-	Shaft A13-	Nozzle A47-	Idle Tube A229-	Float A30-	Float Shaft A32-	Float Valve A233-	Float Setting	Idle Needle A43-	Gaskets A16-	Repair Kit A286-
A10-2065		794		545		32	615	7/32	564	599	*
A10-2065-P		794		545		32	615	7/32	564	599	*
A10-2301	580	853	613		764	35	614	13/64	648		*
A10-2535-1	580			551	766	32	615	7/32	564	630	*
A10-2827	591	853	754	560	764	35	614	13/64	648	646	*
A10-2848	593	1520	652	566	766	32	615	7/32	564	CF-653	1629
A10-2948		1520	684	541	766	32	615	7/32	564	CF-653	815
A10-2971	593	1520	668	569	766	32	615	7/32	564	CF-653	*
A10-2971-P	593	1520	668	569	766	32	615	7/32	564	CF-653	*
A10-2983		768	667	567	766	32	615	7/32	564	632	*
A10-3148-1	580	853	689	572	764	35	614	13/64	648	625	*
A10-3237	593	1164	702	566	766	32	615	7/32	564	CF-653	974
A10-3323	580	853		560	764	35	614	13/64	648	646	*
A10-3346-1	593	1520	719	569	766	32	615	7/32	564	CF-653	1628
A10-3565-1	593	1520	728	569	766	32	615	7/32	564	CF-653	1630
A10-3634	580	1183	738	585	764	35	614	13/64	648	625	*
A10-3649-1	580	853	735	572	764	35	614	13/64	648	625	*
A10-3678-12	CF194-581	1521	741	587	766	32	615	7/32	564	CF-676	*
A10-3678-32	CF194-581	1521	773	587	766	32	615	7/32	564	CF-676	1623
A10-3729	593	1520	719	569	766	32	615	7/32	564	CF-653	1070
A10-3759	580	853	735	572	764	35	614	13/64	648	625	*
A10-3859	580	853	735	572	764	35	614	13/64	648	625	939
A10-3859-1	580	1533	735	572	764	35	614	13/64	648	625	1662
A10-3878	605	1522	739	590	764	35	614	13/64	648	625	1670
A10-3965-12	580	853	749	584	764	35	614	13/64	648	625	1139
A10-4115	593	1520	751	587	764	32	615	7/32	564	696	1237
A10-4164-1	591	1522	755	589	764	35	614	13/64	649	625	*
A10-4171	580	1533	757	584	764	35	614	13/64	648	646	*
A10-4191	580	853	749	584	764	35	614	13/64	648	625	*
A10-4218-1	605	1183	775	596	764	35	614	13/64	648	710	1645
A10-4233	593	1520	770	594	766	32	615	7/32	564	696	1623
A10-4240	593	1520	782	587	766	32	615	7/32	564	696	1635
A10-4252	593	1520	765	587	766	32	615	7/32	564	696	1632
A10-4404-1	605	1533	779	592	764	35	614	13/64	648	646	1643
A10-4439	593	1164	702	566	766	32	615	7/32	564	653	*
A10-4457	593	1520	782	587	766	32	615	7/32	564	696	*
A10-4495	580	1183	788	598	762	35	614	13/64	648	711	1398

Use your Marvel-Schebler Parts and Service Manual for correct parts selection. *** Repair Kits for these carburetor's are not available.**

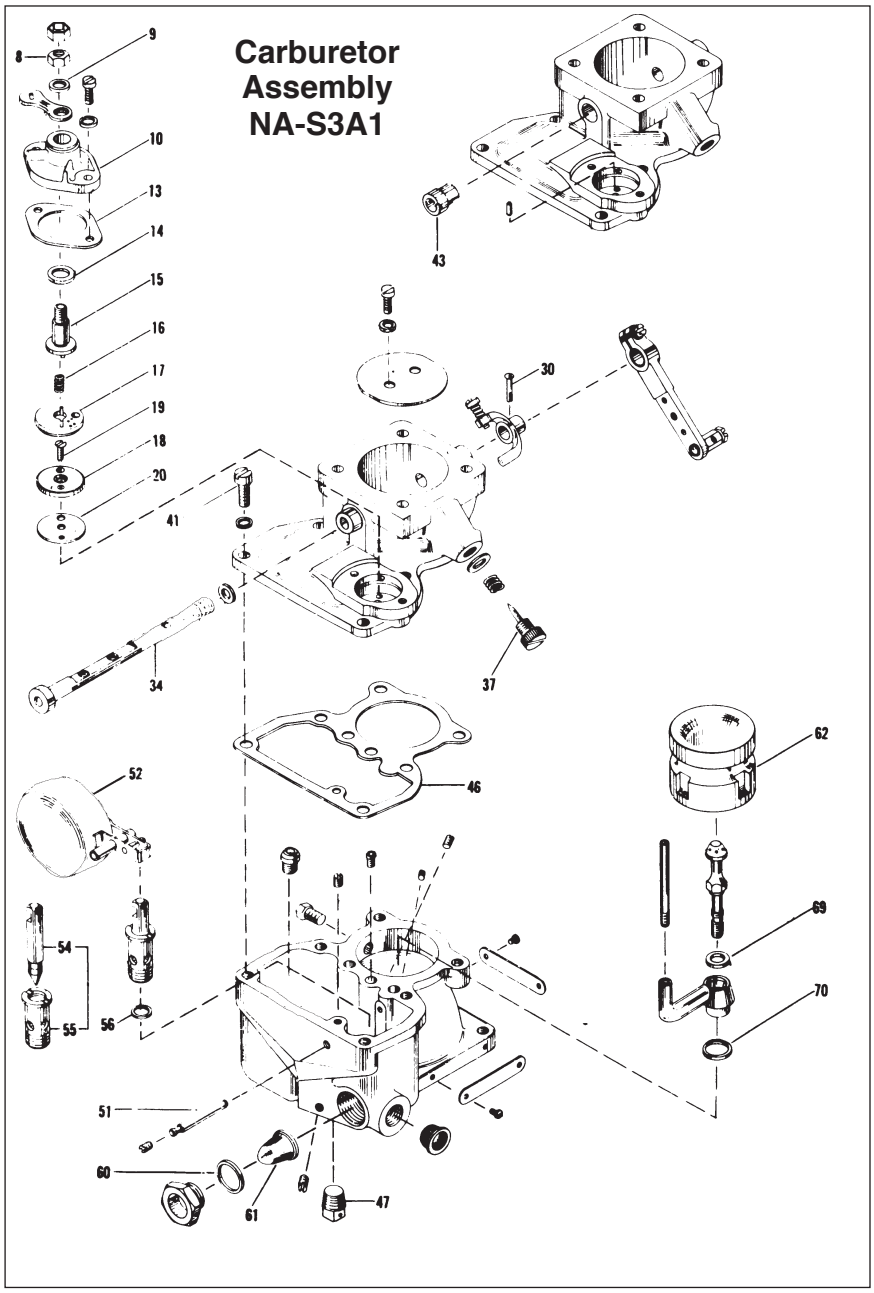
Precision Replacement Parts

Replacement Part	*Part No.*
Screw	A15-A15
Screw	A15-A23
Screw	A15-483
Gasket	A16-A32
Gasket	A16-221
Rod	A17-383
Spring	A24-A1
Spring	A24-A10
Spring	A24-A39
Clip	A29-113
Plug	A37-4
Plug	A37-7
Nozzle	A47-719
Nozzle	A47-728
Packing	A44-86
Washer	A78-5
Washer	A78-121
Washer	A78-356
Washer	A78-357
Washer	A78-371
Plug	A80-151
Cotter Key	A82-9
Cotter Key	A82-14
Screen	A95-57
Pipe Plug	A99-8
Throttle Body	A227-930
Throttle Body	A227-1096
Throttle Body	A227-1107
Throttle Body	A227-1317-1
Throttle Body	A227-1621
Tube Assembly	A229-560
Tube Assembly	A229-569
Tube Assembly	A229-579
Tube Assembly	A229-587
Tube Assembly	A229-588
Valve	A242-505
Valve	A242-508
Valve	A242-520
Valve	A242-528
Valve	A242-537
Long Lock Kit	A666-652

Repair Kits

Kit Number	*Carburetor Part No.*
A286-813	A10-2948
A286-815	A10-3168
A286-939	A10-3859
A286-970	A10-3346-1
A286-1616	A10-3237
A286-1630	A10-3565-1
A286-1070	A10-3729
A286-1139	A10-3965-12
A286-1190	A10-3634
A286-1237	A10-4057, -4057-1, -4404
A286-1237	A10-4115
A286-1428	A10-4495
A286-1428	A10-4240

Bendix Stromberg Carburetor NA-S3A1 Exploded View



	Index No.	Part No.	Description	Qty.
PC 580	8	AN315-3	NUT, no. 10-32	1
PC 595	9	NAS1149F0363P	WASHER	1
	10	P61037	COVER ASSEMBLY, mixture control	1
	13	P61033	GASKET, mixture control cover	1
	14	384667	GASKET	1
	15	P61034	STEM, mixture control	1
	16	P8770	SPRING, helical	1
	17	P61030	PLATE, mixture control valve, upper	1
	18	P61031	PLATE, mixture control valve, lower	1
PC 580	19	AN505-8-6	SCREW, No. 8-32 by 3/8 inch	1
	20	P61035	GASKET	1
	30	P21267-1	PIN, split taper no. 4/0	AR
	34	P16151	SHAFT ASSEMBLY, throttle	1
	37	P16177	VALVE ASSEMBLY, idle	1
	41	P6550	SCREW, fillister head 1/4-20 by 5/8 inch	6
	43	P16169	BUSHING, throttle shaft	2
	46	P16155	GASKET	1

	Index No.	Part No.	Description	Qty.
PC 590	47	MS20913-2D	PLUG (Bendix P8505)	1
	51	P16160	PIN, fulcrum	1
	52	P16156	LEVER AND FLOAT ASSEMBLY	1
	54	2523047	NEEDLE, float (390077)	1
	55	P17247	SEAT, needle valve (no longer available)	1
	56	P16165	GASKET, 1/64-inch thick (see note)	1
	56	P12999	GASKET, 1/32-inch thick (see note)	1
	56	P16166	GASKET, 3/64-inch thick (see note)	1
	56	P16167	GASKET, 1/16-inch thick (see note)	1
	60	174S-22	GASKET, copper	1
	61	P12958	STRAINER ASSEMBLY	1
	62	P16176	1-3/8-inch Venturi	1
	69	P5329	GASKET	1
	70	P2885	GASKET	1
		380189	GASKET KIT (not illustrated)	

Note: When necessary to change the float level, one of these gaskets may be used under the float needle seat in place of P12999.

Service Bulletin

Fuel Systems

Published By Product Support Department

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Rev. No. 1
Issued 6-1-64
Revised 7-15-72
Page 1 of 4

SUBJECT: CARBURETOR, BENDIX-STROMBERG MODELS NA-S3A1, NA-S3B AND NA-S03A1 - FLOAT NEEDLE VALVE P/N 390077 - REPLACEMENT OF

REFERENCE: Letter, Continental (R. J. Powell) to Bendix (J. E. Hartzer) dated 26 June 1963.

PUBLICATIONS AFFECTED:

(a) Form No. 15-91B — Handbook Overhaul Instructions, Float Carburetor Model NA-S3A1 dated 15 December 1958.

(b) Form No. 15-S91B — Supplement to Handbook Overhaul Instructions, Float Carburetor Model NA-S3A1 dated 15 December 1963.

(c) Form No. 15-103B — Illustrated Parts Breakdown, Float Carburetor Model NA-S3A1 dated 1 November 1958.

(d) Form No. 15-S103B — Supplement to Illustrated Parts Breakdown, Float Carburetor Model NA-S3A1 dated 1 November 1958.

REASON FOR BULLENTIN: To provide a float needle valve made of Delrin, an ivory colored acetal plastic, in lieu of the rubber tipped stainless steel needle. Material change made to remove rubber age control requirement, reduce cost and provide an improved service life material. Reason for Revision:

1. To add instructions for float lever weight.
2. To add seat part number under application.

APPLICATION:

Engine	Carburetor Model	Parts List	Seat P/N
A-65, 0-170-3,-5,-7	NA-S3A1	A-18033(B)-5	383911
A-75		A-30177(B)-5	383912
C-75		380162-2	383911
C-85-12		380167-4	383911
C-75-12		380171-2	384585
C-85-12		380172-2	384585
C-75-12		380174-2	383911
C-90-12F		380231-3	383911
C-90-8F		391090-2	383911
C-90-12F		391156-2	384585
C-90-14F		391229-2	383911
C-90-14F		391257-2	384585
A-65-8		391716-2	384585
A-65-8	NA-S3B	380155-2	383911
A-65-8		380156-1	383911
A-65-8		380206-1	384585
A-100-1	NA-S03A1	380168-2	383911
A-100-1		380175-1	384585

Bendix Energy Controls Division

717 N. Bendix Dr., South Bend, Indiana 46620

ACSB No.-34, Rev.1

SUBJECT: CARBURETOR, BENDIX-STROMBERG MODELS NA-S3A1, NA-S3B AND NA-S03A1 - FLOAT NEEDLE VALVE P/N 390077 - REPLACEMENT OF.

COMPLIANCE:

Operating Activities: For information only.

Overhaul Activities: Comply at time of carburetor overhaul when stock of float needle P/N 390077 has been exhausted.

DETAILED INSTRUCTIONS:

1. At time of carburetor overhaul, replace the rubber tipped stainless steel float needle valve P/N 390077 with the new Delrin plastic needle valve P/N 2523047.

2. The needle seat, P/N 383911, 383912 or 384585 as applicable (see application), need not be replaced unless the valve contact area on the seat has been damaged or deformed to the extent that the seat is no longer considered to be serviceable.

3. The Delrin needle requires a weight added to the float lever. The weight must weigh approximately four grams. Refer to Figure 1 for instructions for fabrication of the weight. Soft solder the weight to the float lever in the location indicated in Figure 2. Use a 300 or 500 watt electric iron for this soldering operation to get the solder to flow. Keep the float and lever wrapped in a wet cloth to prevent melting other solder joints.

CAUTION

Be certain the added weight does not strike the aluminum carburetor bowl at any position of the float. Some corners of the added weight will have to be tailored for clearance.

4. Continue assembling the carburetor in the usual manner.

5. The Delrin material is not readily affected by the usual cleaning agents used during normal carburetor overhaul; however, it is recommended that the needle not be subjected to cleaning in a trichlorethylene degreaser or by use of acetone. It is suggested that the material used for needle cleaning be confined to the usual naphtha type cleaning solvents.

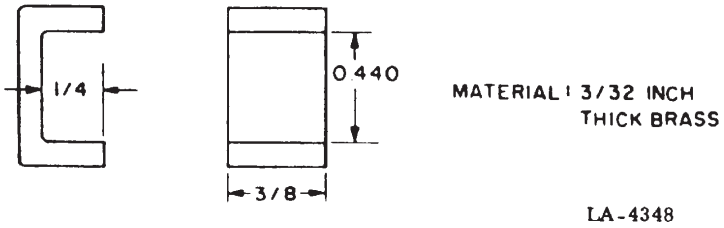


Figure 1

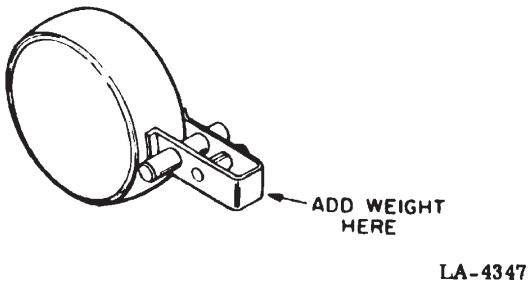


Figure 2

ACSB No. 84, Rev. 1

SUBJECT: CARBURETOR, BENDIX STROMBERG MODELS NA-S3A1, NA-S3B AND NA-S03A1 - FLOAT NEEDLE VALVE P/N 390077 - REPLACEMENT OF.

6. Carburetor reidentification is not required.

7. The existing calibration test and limits are not affected by this bulletin.

PARTS REQUIRED:

Name of Part	Bendix P/N	Quantity/Unit	Source
Valve, Float Needle	2523047	1	(1)

NOTE

Effective with the introduction of the Delrin needle valve, it will no longer be necessary to procure the float needle valve and seat assembly as a matched assembly. However, once in service use, the valves and seats should not be indiscriminately interchanged with other used parts. Valve P/N 2623047 and seat P/N 383911, 383912 or 384585, as applicable, may be procured as separate items.

SOURCE OF PARTS:

(1) Procure through the normal supply channels.

PARTS REMOVED:

Name of Part	Bendix P/N	Quantity/Unit	Disposition
Valve, Float Needle	390077	1	(1) (2)

(1) Scrap.

DISPOSITION OF LIKE PARTS IN STOCK:

(2) Use until exhausted.

SPECIAL MATERIALS REQUIRED: None.

SPECIAL TOOLS REQUIRED: None.

MAN HOURS REQUIRED: No effect.

WEIGHT AND BALANCE DATA: No effect.

Continental AC Pump Adapter Kit

Complies with AD 81-07-06 Teledyne Continental Motors, which applies to A-65, A-75, C-75, C-85, C-90, A-100, C-125, and O-200 engines equipped with AC fuel pumps, part numbers 40585, 40695 or 631391. Kit consists of:

Screen.....643913
Gasket.....643914
Screw.....643915

Part Number..... AF-6561

PC 201

Complete Piper Gascolator

FAA/PMA Approved

For J3, PA11, PA12, 14, 15, 16, 17, 18, 20, 22

.....PC 150.....U14330-002

1/2" Gascolator with Metal Bowl and Quick Drain

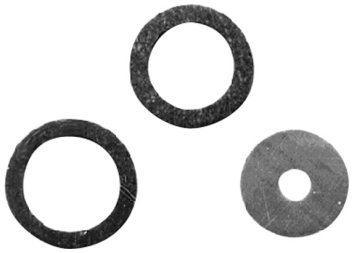
Gascolator for use with 1/2" fuel lines similar to U14330-002 except with large head for 1/2" fuel system.

Complete 1/2" Gascolator.....1702*
1/2" Gascolator Head only.....1700*
1/2" Gascolator Screen only..... 1701*

*For Homebuilt use only.

PC 150

Gascolator Parts



2 1/8 inch Gasket..... U85012-032
2 inch Gasket.....PC 299..... LAT-08
Gascolator Screen U750-272
2 1/8 inch Top U87477-002
2 1/8 inch Bowl U12764-000
Bail.....U494-644

PC 150

Univair Shielded Ignition Leads

To order the correct lead, select the correct ignition lead model from this table.

Example: An engine with 5/8 X 24 spark plugs and a Scintilla S6 Series magneto with threaded cap uses a 101 model lead.

Threaded high tension terminal plates must be used when upgrading from unshielded to shielded ignition leads. See page 160 for Bendix Magneto details. See page 161 for Eisemann Magneto details.

MAGNETO SELECTION	SPARK PLUG SELECTION Spark Plug 5/8 X 24
Eisemann LA4	102
Eisemann LA6	102
Scintilla SF4 Series	104
Scintilla SF6 Series	104
Scintilla S4 Series with Threaded Cap.	101
Scintilla S6 Series with Threaded Cap.	101

Find the right lead length!

If you are replacing an existing lead, measure the exact length, **ferrule** to **ferrule,** and use this as the last part of your order No. **Leads are manufactured in 3'' increments from 19'' thru 60''.**

Example: You want a 101 Series lead. Ferrule to ferrule measurement is 33 inches long. The Univair part number is 101-33.

Prices listed in Price Code 29(PC 290

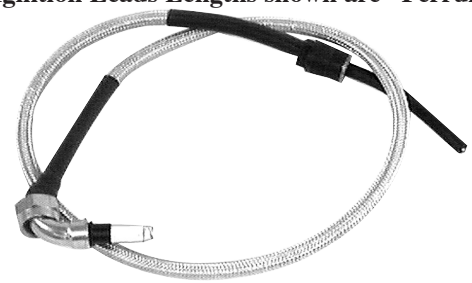
Use the engine, cylinder and routing chart. Correct length is shown as a dash number. Make selection of as many leads as your engine requires.

The routing chart lists only the 101 Series leads. If, for example, you require a 102 Series lead (for Eisemann series magneto), 33 inches long, the chart will list 102-33. You will need to order a 102-33 lead. If you require a 104 series lead (for Scintilla magnetos), order a 104-33, and so on.

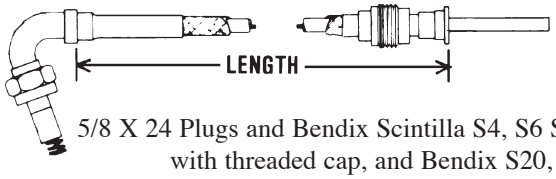
Prices listed in Price Code 290.

SERIES	ELBOW DESIGN	TERMINAL DESIGN SPARK PLUG END	TERMINAL DESIGN MAGNETO END	WIRE SIZE & TYPE	AVAILABLE IN THESE DASH NUMBERS IN 3'' INCREMENTS
101	5/8 x 24 70°	Standard Glazed Ceramic 9/16 Insulator and Silicone Rubber Grommet	11/16 x 24 Male Thread Square Head Nut	7 mm Shielded	101-15 thru 101-72
102	5/8 x 24 70°	Standard Glazed Ceramic 9/16 Insulator and Silicone Rubber Grommet	11/16 x 24 Female Thread Hex Head Nut	7 mm Shielded	102-21 thru 102-69
104	5/8 x 24 70°	Standard Glazed Ceramic 9/16 Insulator and Silicone Rubber Grommet	3/4 x 18 Female Thread Knurled Round Nut	7 mm Shielded	104-21 thru 104-54 104-60 thru 104-69

Shielded Ignition Leads Lengths shown are "Ferrule to Ferrule"

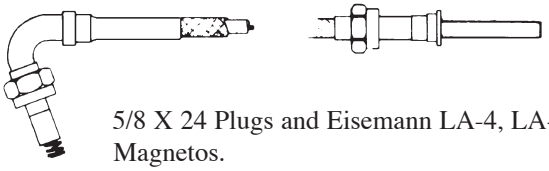


Model 101



5/8 X 24 Plugs and Bendix Scintilla S4, S6 Series, with threaded cap, and Bendix S20, S200, S700, S1200 and D2000 Magnetos **with threaded 11/64 X 24 male outlets.**

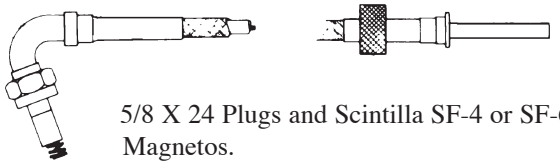
Model 102



5/8 X 24 Plugs and Eisemann LA-4, LA-6 Magnetos.

Note: Only 7mm is available in this model.

Model 104



5/8 X 24 Plugs and Scintilla SF-4 or SF-6 Magnetos.

Note: Only 7mm is available in this model.

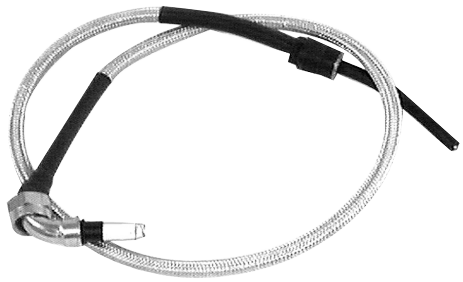
Univair Shielded Ignition Leads

Model 101, 102 and 104 Leads
FAA-PMA Approved

Model 101 Leads fit:

BENDIX SCINTILLA MAGNETO
S4 or S6 Series with 11/16 X 24 Male Thread and spark plugs with 5/8 X 24 standard small barrel.

Spark Plug End is Glazed Ceramic 9/16 Insulator and Silicone Rubber Grommet. 7mm Shielded Wire.



To determine your requirement:

- **Check your spark plug**
- **Check your magneto**
- **Check the chart under your engine**

All the information to assist you in determining your need is given in the charts on this and the preceding page.

The length of the lead is shown in the chart under your specific engine. Length is measured ferrule to ferrule, with length designated by dash number; i.e., 101-42 is 42-inch lead.

Continental Engines

ENGINE MODEL A50, A65, A75, A80

Bendix S4RN-20-21
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-24	B1	1L	101-36
T2	3L	101-36	B2	3R	101-24
T3	2R	101-30	B3	2L	101-27
T4	4L	101-33	B4	4R	101-33

Lead Set 101-105

ENGINE MODEL C75-12, -12F, -12FJ, C85-12F, -12FJ, C90-12, O200A

Bendix S4LN-21
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-39	B1	1L	101-39
T2	3R	101-42	B2	3L	101-39
T3	2R	101-42	B3	2L	101-42
T4	4R	101-42	B4	4L	101-42

Lead Set 101-106

ENGINE MODEL C85-8, -8F, C90-8F, -8FJ

Bendix S4LN-21
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-39	B1	1L	101-36
T2	3R	101-42	B2	3L	101-36
T3	2R	101-42	B3	2L	101-42
T4	4R	101-42	B4	4L	101-39

Lead Set 101-107

Chart Symbol Definitions:
under Cylinder column (Cyl.): T = Top, B= Bottom
under Magneto column (Mag.): L = Left, R = Right

ENGINE MODEL C125, C145, O300

Bendix S6LN-21
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-33	B1	1L	101-39
T2	4R	101-36	B2	4L	101-36
T3	3R	101-42	B3	3L	101-45
T4	6R	101-48	B4	6L	101-42
T5	5R	101-42	B5	5L	101-51
T6	2R	101-48	B6	2L	101-48

Lead Set 101-108

ENGINE MODEL GO-300A

Bendix S6RN-21
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-36	B1	1L	101-36
T2	4R	101-39	B2	4L	101-33
T3	5R	101-39	B3	5L	101-48
T4	2R	101-51	B4	2L	101-42
T5	3R	101-45	B5	3L	101-51
T6	6R	101-54	B6	6L	101-48

Lead Set 101-109

ENGINE MODEL E165, E185, E225

Bendix S6LN-21
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-36	B1	1L	101-36
T2	4R	101-42	B2	4L	101-33
T3	3R	101-45	B3	3L	101-45
T4	6R	101-51	B4	6L	101-45
T5	5R	101-48	B5	5L	101-51
T6	2R	101-48	B6	2L	101-45

Lead Set 101-110

ENGINE MODEL E165, E185, E225 CROSSFIRE

Bendix S6LN-21
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-33	B1	1L	101-33
B2	4R	101-36	T2	4L	101-42
T3	3R	101-42	B3	3L	101-42
B4	6R	101-48	T4	6L	101-45
T5	5R	101-48	B5	5L	101-48
B6	2R	101-48	T6	2L	101-48

Lead Set 101-111

ENGINE MODEL O470-4, -11, -13A

Bendix S6LN-21
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-33	B1	1L	101-42
T2	4L	101-39	B2	4R	101-42
T3	3R	101-42	B3	3L	101-48
T4	6L	101-45	B4	6R	101-51
T5	5R	101-48	B5	5L	101-54
T6	2L	101-51	B6	2R	101-54

Lead Set 101-112

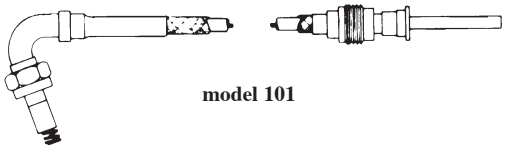
ENGINE MODEL O470B, -J, -K, -L, -M, -R, etc. IO-470 Series, IO-520 Series

Bendix S6RN-25
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-18	B1	1L	101-36
T2	4L	101-18	B2	4R	101-36
T3	3R	101-18	B3	3L	101-36
T4	6L	101-18	B4	6R	101-33
T5	5R	101-21	B5	5L	101-39
T6	2L	101-21	B6	2R	101-39

Lead Set 101-113

Univair Shielded Ignition Leads (continued)



model 101

Elbow Design	Terminal Design Spark Plug End	Terminal Design Magneto End	Wire Size and Type	Lengths Available in 3-inch Increments
5/8 X 24 70°	Standard Glazed Ceramic 9/16 Insulator and Silicone Rubber Grommet	11/16 X 24 Male Thread Square Head Nut	7mm Shielded	101-15 thru 101-72

Lycoming Engines

ENGINE MODEL O235, O-290

Bendix S4LN-20-21
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-33	B1	1L	101-51
T2	3L	101-33	B2	3R	101-48
T3	2R	101-27	B3	2L	101-45
T4	4L	101-27	B4	4R	101-42

Lead Set 101-114

ENGINE MODEL O320, O340-A1A

Bendix S4LN-21
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-33	B1	1L	101-51
T2	3L	101-33	B2	3R	101-48
T3	2R	101-27	B3	2L	101-45
T4	4L	101-24	B4	4R	101-42

Lead Set 101-115

ENGINE MODEL O320A, -B, O360

Bendix S4LN-20-21
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-36	B1	1L	101-54
T2	3L	101-36	B2	3R	101-51
T3	2R	101-30	B3	2L	101-48
T4	4L	101-30	B4	4R	101-45

Lead Set 101-116

ENGINE MODEL O435A

Bendix S6LN-50-51
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-33	B1	1L	101-51
T2	4L	101-33	B2	4R	101-54
T3	5R	101-27	B3	5L	101-48
T4	2L	101-27	B4	2R	101-51
T5	3R	101-21	B5	3L	101-45
T6	6L	101-21	B6	6R	101-48

Lead Set 101-117

Chart Symbol Definitions:
under Cylinder column (Cyl.): T = Top, B= Bottom
under Magneto column (Mag.): L = Left, R = Right

ENGINE MODEL 0435-23

Bendix S6LN-20-RN-21
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-27	B1	1L	101-60
T2	4L	101-27	B2	4R	101-63
T3	5R	101-21	B3	5L	101-57
T4	2L	101-18	B4	2R	101-60
T5	3R	101-15	B5	3L	101-60
T6	6L	101-21	B6	6R	101-51

Lead Set 101-118

ENGINE MODEL O540

Bendix S6LN-20-21
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-45	B1	1L	101-54
T2	4L	101-45	B2	4R	101-54
T3	5R	101-39	B3	5L	101-48
T4	2L	101-39	B4	2R	101-45
T5	3R	101-36	B5	3L	101-42
T6	6L	101-30	B6	6R	101-42

Lead Set 101-119

ENGINE MODEL GO480-C2D6, GO480-C2

Bendix S6LN-20-21
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-45	B1	1L	101-69
T2	4L	101-42	B2	4R	101-72
T3	5R	101-36	B3	5L	101-63
T4	2L	101-36	B4	2R	101-66
T5	3R	101-27	B5	3L	101-54
T6	6L	101-30	B6	6R	101-63

Lead Set 101-120

ENGINE MODEL GSO480-A1A-6

Bendix S6LN-20-21
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-33	B1	1L	101-63
T2	4L	101-30	B2	4R	101-57
T3	5R	101-27	B3	5L	101-57
T4	2L	101-24	B4	2R	101-57
T5	3R	101-24	B5	3L	101-60
T6	6L	101-21	B6	6R	101-57

Lead Set 101-121

ENGINE MODEL VO435-A1B, -A1C, -A1D, GO480-C1B, -C1B6, GSO480-A1A, -A1A6

Bendix S6LN-20-RN-21
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-33	B1	1L	101-66
T2	4L	101-30	B2	4R	101-66
T3	5R	101-24	B3	5L	101-57
T4	2L	101-21	B4	2R	101-63
T5	3R	101-21	B5	3L	101-57
T6	6L	101-15	B6	6R	101-57

Lead Set 101-122

ENGINE MODEL GO435-C2, -C2B, GO480-F6

Bendix S6LN-50-51
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-36	B1	1L	101-66
T2	4L	101-36	B2	4R	101-69
T3	5R	101-30	B3	5L	101-63
T4	2L	101-30	B4	2R	101-66
T5	3R	101-24	B5	3L	101-60
T6	6L	101-27	B6	6R	101-66

Lead Set 101-123

Franklin Engines

ENGINE MODEL 6A4-150-B3, -B31

Bendix S6RN-21
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-42	B1	1L	101-36
T2	4L	101-45	B2	4R	101-30
T3	5R	101-45	B3	5L	101-45
T4	2L	101-51	B4	2R	101-42
T5	3R	101-48	B5	3L	101-51
T6	6L	101-54	B6	6R	101-45

Lead Set 101-124

ENGINE MODEL 6A4-165-B3

Bendix S6RN-21
Plug Nut 5/8 - 24

Cyl.	Mag.	Lead	Cyl.	Mag.	Lead
T1	1R	101-36	B1	1L	101-30
T2	4L	101-39	B2	4R	101-24
T3	5R	101-39	B3	5L	101-42
T4	2L	101-48	B4	2R	101-36
T5	3R	101-42	B5	3L	101-45
T6	6L	101-48	B6	6R	101-39

Lead Set 101-125

Bendix Scintilla Magneto Spares

Univair has acquired various Bendix Scintilla spares, listed below. They are available while quantities last.

Part No.	Description
2-126	gasket
2-138	washer
2-139-1	shim
2-139-2	shim
2-139-3	shim
2-139-4	shim
2-139-5	shim
2-139-6	shim
2-140	washer
2-141-1	shim
2-141-2	shim
2-141-3	shim
2-141-4	shim
2-141-5	shim
2-141-6	shim
2-146	spring
2-148	plate
2-152-2	pin
2-161-3	shim washer
2-161-4	washer
2-161-5	shim washer
2-161-6	shim washer
2-181	woodruff key
2-182	woodruff key
2-184	screw
2-187	screw
2-189-1	shim washer
2-189-2	shim washer
2-189-3	shim washer
2-189-4	shim washer
2-189-5	shim washer
2-189-6	shim washer
2-194	lock washer
2-199-2	shim washer
2-199-3	shim washer
2-199-4	shim washer
2-199-5	shim washer
2-199-6	shim washer
2-216-z	oil cap
2-217	axle
2-219	spacer
2-231	collector
2-247-y	screw
2-274	felt strip
2-281	lock washer
2-292-z	gear
2-295-z	woodruff key
2-311	carbon brush
2-317	disc (p)
2-322	disc (2)
2-325	disc (5)
2-326	disc (6)
2-327	disc (7)
2-328	disc (8)
2-329	disc (9)
2-333	block
2-334	block
2-339	washer
2-392	electrode
2-393	cotter pin
2-440	spring
2-453	bridge
2-459	block
2-460	block
2-462	bearing (nd 15)
2-463	bearing (nd 17)
2-529	gasket
2-621	cam
2-633	cam
2-648	plug
2-649	plug
2-681	lock
2-693	electrode
2-696-z	cylinder
2-755	condenser
2-755y	condenser
2-764	brush
2-80	clamp
2-828-z	woodruff key
2-867	block
2-965	washer
2-995	washer
10-102083	screw
10-102090	spring
10-102092	spring
10-116197	ret. vent screw
10-12036-y	cylinder
10-124545	key
10-12643	disc
10-12647	carbon brush
10-126676	placard
10-12719	spring
10-12945	magneto cover
10-12947-z	magneto cover
10-13222	leather plug
10-13242	plug
10-13358	cyl. distributor
10-13370	screw
10-13625-z	coil
10-13636	clamp assembly
10-13775	gasket
10-13777	retainer
10-13779	screw
10-13795	shield
10-13796	side vent spacer
10-13797	screen
10-13798	clamp
10-14215	screw
10-14268	washer
10-14576	finger
10-14855	nut
10-14857	coil
10-14990	nut
10-156390	washer
10-157109y	contact
10-157120-y	gear mag.
10-157123	gear
10-157123-y	gear
10-157128-w	breaker
10-157134	vented plug
10-157135	plug
10-157160	screw
10-157161	screw
10-157197	gear
10-158152	connector
10-15823	washer
10-15827-y	rotor assembly
10-15828-y	rotor assembly
10-15829y	coil
10-15832	connector
10-160844	brush
10-160858	housing
10-16140-z	ground shield
10-16203	insulator
10-163012	eyelet
10-163049	bushing
10-163131	condenser
10-163136	cover
10-163151	nut
10-163171	RH breaker assy.
10-163177	nut
10-163178	nut
10-163292	housing
10-163347-2	coil
10-163374	strip
10-163384	disc
10-16476	screw
10-16481	screw
10-16483	screw
10-16487	screw
10-16584	screw
10-16640	felt
10-16768	screw
10-16898	screw
10-17892	condenser
10-17900-y	oil seal
10-180016-1	tube
10-180016-31	tube
10-180016-32	tube
10-187468	dial
10-18955	breaker
10-19021	clip
10-19253	gasket
10-19254	plug
	10-19722 breaker cover screw
10-20223	breaker cam
10-20236	contact assembly
10-20237	contact assy.
10-2024	lock ring
10-20490	screw
10-21344	screw
10-21495	carbon brush
10-21529	bolt
10-21585	gear
10-21721	felt
10-21917-w	coil
10-22067	screw
10-22529	carbon brush
10-22560-3	magneto
10-25457	small gear
10-25458	gear
10-25725	contact
10-25788	bushing d/e
10-25789	spacer
10-2617	grommet
10-26198	washer
10-26199	tube insulator
10-2633	ring
10-2674	grommet
10-27448	oil seal
10-28909	contact screw
10-29005	contact screw
10-29049	front end plate
10-2936-d2	bearing
10-2976	support
10-2980	terminal
10-30299	nut
10-31282	retaining ring
10-3154-2	leather plug
10-320050	grommet
10-320283	clamp
10-320394	plate
10-3220	washer
10-32438	washer
10-3263	bushing
10-3316	insulator
10-3320	contact
10-33630	block
10-3383	contact
10-3424	plate
10-3429	follower
10-3450	felt washer
10-3464-1	shim spacer
10-3464-2	shim spacer
10-3464-3	shim spacer
10-3464-4	shim spacer
10-349234	gear
10-349276	capacitor
10-349357-2	cam
10-349371	coupling
10-3503	washer
10-350447a	ps-sc kit
10-357078	bearing
10-357094	contact
10-357097	breaker
10-357164	coil assembly
10-357165	coil
10-357173	points
10-357174	points
10-357200-1	switch
10-357290-1	switch
10-357424	dist. block
10-357584	gear kit
10-357592	oil seal
10-35935-5	screw
10-35936-10	screw
10-35936-6	screw
10-35936-7	screw
10-35937-10	screw
10-3657	nut outlet plate
10-3659	washer
10-3677	washer
10-3743	ferrule
10-37621	finger
10-37626	condenser
10-37668	sleeve
10-377007	lock ign. switch
10-3793	lock washer
10-382584	breaker
10-382585	breaker
10-382681	condenser
10-391247-2	cam
10-391248-4	cam
10-3983	lock washer
10-400167-4	cam
10-400314	impulse coupling with core charge
10-40810-2	grommet
10-4092	nut
10-4093	washer
10-4140	leather plug
10-41810-2	plug assembly
10-4308	bearing
10-4744	electrode
10-50708	cam breaker
10-50727-y	housing
10-50737	spring
10-50739	grommet
10-50746	micarta gear
10-50746y	gear
10-50752	felt washer
10-50753	washer
10-50754	gear
10-50765	clamp
10-50766	plate
10-50771	grommet
10-50772y	cam
10-50775	screw
10-50777	plate
10-50779	large gear
10-51218	grommet
10-51266	spring
10-51324	spring
10-51332	body
10-51354	washer
10-51355	screw
10-51370	washer
10-51390	stop pin
10-51395	body
10-51612	bushing
10-51613	washer
10-51643	nut
10-51652-y	nut
10-51653	magnet
10-51676	condenser
10-51677	washer
10-51678	oil slinger
10-52305	ground term. kit
10-52305-1	ground term. kit
10-52306	ground term. kit
10-52307	washer
10-52320	gasket
10-5286-11	shim washer
10-5289-12	shim washer
10-5289-13	shim washer
10-5289-14	shim washer
10-52901	sleeve insulator
10-52903	body
10-52917	housing
10-52931	housing
10-52934	grommet
10-52935	5/8 18 thrd. back plate kit
10-52936	scintilla kit
10-52937	cover
10-52938-y	cover
10-52939-y	cover
10-52941	housing
10-52942	housing
10-52943	housing
10-52944	housing
10-52945	magnet
10-52947	magnet
10-52948	rotor
10-52949	block
10-52952-t	points
10-52958	block
10-5413-y	seal
10-5414	retainer
10-5509	felt pad
10-5510-z	distributor block
10-5511-z	distributor block
10-5600	screw
10-56153	spring
10-56507	grommet
10-56513	pin
10-56591	bushing
10-57442	cam
10-57443	cam
10-5752	cable clip
10-5785	terminal
10-59432	clamp
10-59437	impulse cam
10-59439	cam assembly
10-59445	gland
10-59449	plate
10-59451	cover
10-59454	rotor assembly
10-59456	strip
10-59457	vent
10-59471	impulse coupling
10-59474	impulse coupling
10-59479	impulse coupling
10-620039-5	plate
10-6498	housing
10-65394	ignition coil
10-7030	ferrule
10-70344-w	breaker assy.
10-70370	impulse coupling
10-70371	body
10-7101	block spacer
10-7308	spacer
10-7441	retainer
10-7453	felt washer
10-7461-2	condenser
10-74810-2p	insert
10-7611	washer
10-76231	breaker assembly
10-76232	body
10-7658	screw
10-7662	screw
10-7713	condenser
10-79011	stop pin
10-79019-y	cover
10-8014	insulator
10-8032	lock
10-8162	plug
10-81703	coil
10-81710	screw
10-81713	screw
10-81806	bearing
10-81924	plug
10-821481-2	harness
10-8329	cam shaft
10-8509	gasket
10-8510	gasket
10-8523	spacer
10-8524-y	cam breaker
10-8560	bushing
10-8561	retainer
10-8665	gasket
10-8672	spacer
10-8785	washer
10-88514-3	bushing
10-88514-4	bushing
10-88517-182	scintilla kit
10-88517-42	scintilla kit
10-88518-109	scintilla kit
10-88543-1	cam
10-88543-4	cam
10-88543-5	cam
10-89137	impulse coupling
10-90405-5	nut
10-90500-5	drive screw
10-90701-5	washer
10-90788-5	key
10-91224-7	screw
10-92815-37	snap spring
10-9354	screen
10-94460-32	scintilla kit
10-94460-34	scintilla kit
10-94460-49	scintilla kit
10-9476	shaft
10-9477	pointer
10-948-z	nut
10-9489	plug
10-9543	insulated plate
10-9571	nut
10-9595	carbon brush
10-9624	gasket
10-9642	coil
10-9690	cylinder
10-9939	insulator
10-9967	screen
10-9978	coil
10-9980	large gear
10-9981	small gear
10-9993	collar

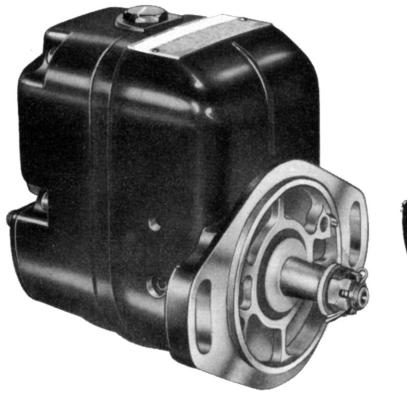
New and Rebuilt Magnetos — Limited Quantities!

Model No.	Reconditioned Outright Part No.
S4LN-20 (new outright only)	10-51360-29
S4LN-21	10-51360-26-RO
	10-51360-37-RO
S6LN-21	10-51365-39-RO
S6LN-25 (new outright only)	10-79020-6
S6RN-200	10-163010-15-RO
S6RN-201	10-163020-3-RO
S6RN-204	10-163050-1-RO
S6RN-205	10-163060-1-RO

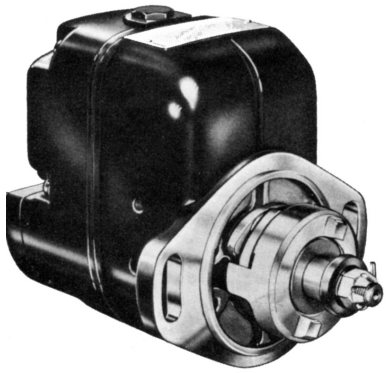
These are either new or reconditioned magnetos that are several years old since reconditioning. They may not comply with applicable airworthiness directives. Limited quantities. All magnetos are sold as is.

Univair's Toll Free Sales: 1 (888) 433-5433

Bendix Aircraft Magnetos

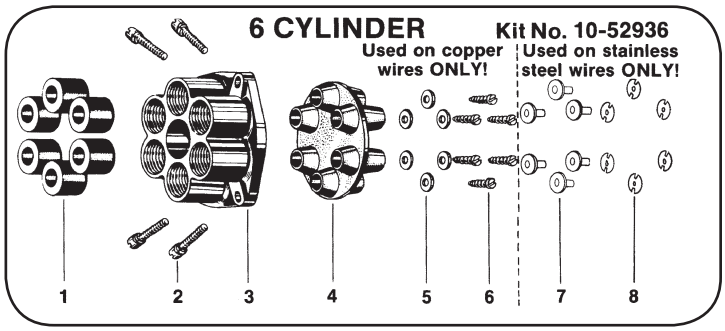


S6LN-20



S6LN-21

Bendix High Tension Terminal Kit



Ref. No.	Part No.	No. Req.	Description
1	10-52934	4	Grommet (cable protection, used with non-shielding installations)
2	10-35937-10	4	Screw and Lock Washer (cable outlet plate)
3	10-50766	1	Plate–cable outlet (threaded outlets)
4	10-50739	1	Grommet–cable outlet
5	10-8785	4	Washer–plain (H.T. cable screw, used only with copper conductor cable)
6	10-14215	4	Screw (H.T. cable)
7	10-163012	4	Eyelet–H.T. cable contact (used only with stainless steel conductor cable)
8	10-51677	4	Washer–alternate method of securing stainless steel wires

We have many other Bendix parts in stock.
Please call Univair at:
Toll Free 1-888-433-5433

For converting Bendix S6 series magnetos to a shielded system: In addition to the Univair 101 series ignition leads, you will require a High Tension Terminal Kit (see above). The part number you will require will be found on the chart at right. Ground Terminal Kit part numbers may also be found on this chart.

Ground Terminal Kit

Part Number.....10-52305-1

Magneto Noise filter

Magneto Noise filter.....A-293

COMPONENTS FOR COMPLETE MAGNETO INSTALLATION

(Each magneto requires a high tension and a ground terminal kit, as shown to the left.)

MAGNETO			HIGH TENSION TERM. KIT	GROUND TERM. KIT
Type	Mag. Reference No.	Replaces Part No.	Part No.	Part No.
S6LN-20	10-51365-31	10-51365-15	10-52936	10-52305-1
S6LN-21	10-51365-32	10-51365-20	10-52936	10-52305-1
S6LN-20	10-51360-33	10-51365-25	10-52936	10-52305-1
S6RN-21	10-51365-34	10-51365-26	10-52936	10-52305-1
S6RN-21	10-51365-35		10-52936	10-52305-1
S6LN-21	10-51365-39	10-51365-1	10-52936	10-52305-1
S6RN-21	10-51365-40	10-51365-2, -13	10-52936	10-52305-1
S6RN-21	10-51365-41	10-51365-5	10-52936	10-52306
S6LN-21	10-51365-42	10-51365-16	10-52936	10-52305-1
S6LN-20	10-51365-43	10-51365-17	10-52936	10-52305-1
S6LN-20	10-51365-44	10-51365-29	10-52936	10-52305-1
S6LN-21	10-51365-45	10-51365-30	10-52936	10-52305-1
S6LN-20	10-51365-46	10-51365-27	10-52936	10-52305-1
S6LN-21	10-51365-47	10-51365-28	10-52936	10-52305-1
S6RN-21	10-51365-48	10-51365-7, -14	10-52936	10-52305-1
S6RN-23	10-52350-19	10-52350-2	10-52936	10-52306
S6LN-23	10-52350-20	10-52350-6	10-52936	10-52306
S6RN-23	10-52350-21	10-52350-8	10-52936	10-52306
S6LN-22	10-52350-22	10-52350-14, -17	10-52936	10-52306
S6RN-23	10-52350-23	10-52350-15, -18	10-52936	10-52306
S6RN-25	10-79020-8	10-79020-2, -5	10-52936	10-52305-1
S6RN-26	10-85290-2	Not Changed	10-52936	10-52305-1

Bendix Magneto Repair Kits
By Aero Accessories
FAA/PMA Approved

Bendix Magneto Repair Kit
Part Number AB-485-R

Bendix Magneto Deluxe Repair Kit
Part Number AB-485-D

(Major Components Illustrated) additional parts included.

Aero Accessories Inc.
TCM (Bendix) Series Magnetos
Kit Application Guide

Magneto replacement parts manufactured and sold by Aero Accessories, Inc. are made to specifications dictated by Federal Aviation Administration parts manufacturing approvals. They are highest quality direct replacement parts, approved for installation and use on certified aircraft. Most Aero Accessories, Inc. part numbers include the part number of the original manufacturer ensuring an easy determination of replacement applicability. Always refer to the parts and service manual of the original equipment manufacturer, or to Aircraft Type Certificate Data Sheets or other FAA-Approved data to determine eligibility of a part or component for use in any application.

(1) Contents of the Repair Kit and the Deluxe Repair Kit are listed to the right. →
(2) The Component Part Kits contain installation hardware.
(3) The Repair Kit and Deluxe Repair Kit for the Bendix -200, -201 and -202 Series Magnetos contain two sets of Contact Assy. Kits.

Repair Kit	**Deluxe Repair Kit**
1-Contact Assy. Kit (3)	1-Contact Assy. Kit (3)
1-Capacitor	1-Coil Kit
2-Bearings	1-Distributor Block Kit
1-Oil Seal	1-Gear Kit
1-Oil Slinger	1-Capacitor
3-Woodruff Keys	2-Bearings
1-Cotter Pin	1-Oil Seal
1-Cam Screw	1-Oil Slinger
1-Felt Washer	3-Woodruff Keys
1-Felt Strip	1-Cotter Pin
1-Snap Ring	1-Cam Screw
1-Carbon Brush	

Note:
Repair Kit - Minor repair such as a 500 hour inspection.
Deluxe Repair Kit - Major repair such as a magneto overhaul.*

*** Some parts that may need replacing during magneto overhaul are not included in this kit. Refer to the TCM (Bendix) Master Service Manual for parts not included in this Deluxe Repair Kit.**

Note: The component part kits contain installation hardware.

Aero Accessories, Inc.
Kit Application Data
TCM (Bendix) S-20 and S-21 Series Magnetos

MAGNETO Part Number	MAGNETO Type	REPAIR KIT Part Number	DELUXE REPAIR KIT Part Number
10-51360-1	S4R(L)N-20, -21	**AB-473-R**	**AB-473-D**
10-51360-3			
10-51360-4			
10-51360-6			
10-51360-8			
10-51360-10	S4R(L)N-20, -21	**AB-474-R**	**AB-474-D**
10-51360-11			
10-51360-12			
10-51360-25			
10-51360-26	S4R(L)N-20, -21	**AB-473-R**	**AB-473-D**
10-51360-27			
10-51360-28			
10-51360-29	S4R(L)N-20, -21	**AB-474-R**	**AB-474-D**
10-51360-30			
10-51360-31	S4R(L)N-20, -21	**AB-473-R**	**AB-473-D**
10-51360-33	S4R(L)N-20, -21	**AB-474-R**	**AB-474-D**
10-51360-37			
10-51360-40			
10-51360-41			
10-51360-45	S4LN-21	**AB-485-R**	**AB-485-D**
10-51360-46	S4R(L)N-20, -21	**AB-474-R**	**AB-474-D**
10-51360-47	S4LN-21	**AB-485-R**	**AB-485-D**
10-51360-48	S4R(L)N-20, -21	**AB-484-R**	**AB-484-D**
10-51360-54	S4R(L)N-20, -21	**AB-474-R**	**AB-474-D**
10-51360-55	S4LN-21	**AB-485-R**	**AB-485-D**
10-51360-58			

Aero Accessories, Inc.
Kit Application Data
TCM (Bendix) S-24 and S-25 Series Magnetos

MAGNETO Part Number	MAGNETO Type	REPAIR KIT Part Number	DELUXE REPAIR KIT Part Number
10-79020-5	S6R(L)N-24, -25	**AB-674-R**	**AB-674-D**
10-79020-6			
10-79020-8			
10-79020-10			
10-79020-11	S6LN-25	**AB-685-R**	**AB-685-D**
10-79020-13	S6R(L)N-24, -25	**AB-674-R**	**AB-674-D**
10-79020-14			
10-79020-16			
10-79020-17	S6LN-25	**AB-685-R**	**AB-685-D**
10-79020-18			
10-79020-118			
10-79020-19	S6RN-25	**AB-684-R**	**AB-684-D**
10-79020-119			

Aero Accessories, Inc.
Kit Application Data
TCM (Bendix) S-20 and S-21 Series Magnetos

MAGNETO Part Number	MAGNETO Type	REPAIR KIT Part Number	DELUXE REPAIR KIT Part Number
10-51360-1 Up to SN 238468			
	S6R(L)N	**AB-673-R**	**AB-673-D**
10-51365-1 SN 238469 and up			
	S6R(L)N	**AB-674-R**	**AB-674-D**
10-51365-2	S6R(L)N-20, -21	**AB-673-R**	**AB-673-D**
10-51365-5			
10-51365-7			
10-51365-9	S6R(L)N-20, -21	**AB-674-R**	**AB-674-D**
10-51365-13	S6R(L)N-20, -21	**AB-673-R**	**AB-673-D**
10-51365-14	S6R(L)N-20, -21	**AB-674-R**	**AB-674-D**
10-51365-15			
10-51365-16			
10-51365-17			
10-51365-20			
10-51365-25			
10-51365-26			
10-51365-27			
10-51365-28			
10-51365-29			
10-51365-30			
10-51365-31			
10-51365-32			
10-51365-33			
10-51365-34			
10-51365-35			
10-51365-39			
10-51365-40	S6R(L)N-20, -21	**AB-673-R**	**AB-673-D**
10-51365-41			
10-51365-42	S6R(L)N-20, -21	**AB-674-R**	**AB-674-D**
10-51365-43			
10-51365-44			
10-51365-45			
10-51365-46			
10-51365-47			
10-51365-48	S6R(L)N-20, -21	**AB-673-R**	**AB-673-D**
10-51365-53	S6R(L)N-20, -21	**AB-674-R**	**AB-674-D**
10-51365-54			
10-51365-57	S6LN-20, -21	**AB-685-R**	**AB-685-D**

Aero Accessories, Inc.
Kit Application Data
TCM (Bendix) S-200 Series Magnetos

MAGNETO Part Number	MAGNETO Type	REPAIR KIT Part Number	DELUXE REPAIR KIT Part Number
10-163005-1	S4R(L)N-200*	**AB-200445-R**	**AB-200445-D**
10-163005-2			
10-163005-3			
10-163005-4			
10-163005-5			
10-163005-7			
10-163005-10			
10-163005-11			
10-163015-1	S4R(L)N-201*	**AB-200445-R**	**AB-200445-D**
10-163015-2			
10-163015-3			
10-163015-4			

TCM (Bendix) S-200 Kit Application Data (continued)

MAGNETO Part Number	MAGNETO Type	REPAIR KIT Part Number	DELUXE REPAIR KIT Part Number
10-163045-1	S4LN-204	**AB-200485-R**	**AB-200485-D**
10-163045-2	S4RN-204	**AB-200484-R**	**AB-200484-D**
10-163045-3	S4LN-204	**AB-200485-R**	**AB-200485-D**
10-163045-4	S4RN-204	**AB-200484-R**	**AB-200484-D**
10-163045-6	S4LN-204	**AB-200485-R**	**AB-200485-D**
10-163045-7	S4RN-204	**AB-200484-R**	**AB-200484-D**
10-163055-1	S4RN-205	**AB-200484-R**	**AB-200484-D**
10-163055-2	S4RN-205	**AB-200485-R**	**AB-200484-D**
10-163010-1	S6R(L)N-200*	**AB-200645-R**	**AB-200645-D**
10-163010-2			
10-163010-3			
10-163010-4			
10-163010-5			
10-163010-6			
10-163010-7			
10-163010-8			
10-163010-9			
10-163010-10			
10-163010-11			
10-163010-15			
10-163010-17			
10-163020-1	S6R(L)N-201*	**AB-200645-R**	**AB-200645-D**
10-163020-2			
10-163020-3			
10-163020-4			
10-163030-1	S6R(L)N-202*	**AB-200645-R**	**AB-200645-D**
10-163030-4			
10-163050-1	S6LN-204	**AB-200685-R**	**AB-200685-D**
10-163050-2			
10-163050-3			
10-163050-5			
10-163050-6	S6RN-204	**AB-200684-R**	**AB-200684-D**
10-163050-7			
10-163050-8			
10-163050-9	S6LN-204	**AB-200685-R**	**AB-200685-D**
10-163060-1	S6RN-205	**AB-200684-R**	**AB-200684-D**
10-163060-2	S6LN-205	**AB-200685-R**	**AB-200685-D**
10-163070-1	S6LN-206	**AB-200685-R**	**AB-200685-D**
10-163070-3			

Need a part that you can't find?
Give us a call at:
1 (888) 433-5433
or
Fax: 1 (800) 457-7811
e-mail: info@univair.com
Web site: www.univair.com

UNIVAIR®

FAA/PMA Approved Replacement Parts for Bendix Type Magnetos

Description	*Part No.*
Screw	AB-102083
Washer	AB-14268
Screw	AB-157158
Brush	AB-160844
Felt	AB-163374
Bearing	AB-2-202
O Ring	AB-349263
Capacitor Kit	AB-349276
Fish Paper	AB-349326
Washer (Steel)	AB-349511
Screw	AB-349652
Bearing	AB-353056
Bearing	AB-353060
Coil Kit	AB-357164-1
Coil Kit	AB-357165-1
Contact Kit	AB-357173
Contact Kit	AB-357174
Capacitor	AB-357281
Distributor Block Kit	AB-357424
Distributor Block Kit	AB-357426
Gear Kit	AB-357584
Gear Kit	AB-357586
Oil Seal	AB-357592
Screw	AB-35935-6
Screw	AB-35936-7
Screw	AB-35937-8
Fish Paper	AB-382568
Contact Kit	AB-382584
Contact Kit	AB-382585
Contact Kit	AB-382622
Capacitor	AB-382681
Washer	AB-382788
Screw	AB-382789
Capacitor	AB-382807
Screw	AB-382871
Screw	AB-382881
Nut	AB-382936
Screw	AB-382959
Bearing	AB-382971
Coil	AB-391088-1
Distributor Block Lub. (8 0z.)	AB-391200
Screw	AB-391213
Washer, Nylon	AB-391309
Spring	AB-50737
Felt	AB-50752
Clamp, Coil	AB-50765
Capacitor	AB-51676
Slinger, Oil	AB-51678
Washer	AB-53397
Washer	AB-55501
Bearing Grease (2 oz.)	AB-56172
Bearing Grease (16 oz.)	AB-56172-1
Washer, Steel	AB-606505
Gear Kit	AB-682014
Bearing	AB-81806
Lubricant, Felt	AB-86527
Cotter Pin	AB-90751-18
Cotter Pin	AB-90751-19
Woodruff Key	AB-90788-5
Snap Ring	AB-92815-37
Snap Ring	AB-92815-62

FAA/PMA Approved Replacement Parts for Slick-Type Magnetos

Woodruff Key	AM2536
Cotter Pin	AM2540
Bearing	AM3006
Screw	AM3014
Screw	AM3014-1
Screw	AM3021
Seal	AM3062
Contact Assy. Kit	*AM3081
Washer, Contact	A13081-1
Screw, Contact	A13081-2
Lube, Contact	A13081-8
Capacitor Assy	**AM3183
Nut, Capacitor	AM3183-1
Washer, Capacitor	AM3183-2
Brush	AM3215
Spring	AM3217
Bearing and Cap Assy.	AM3485
Cam	AM3611

***Kit includes: A13081, A13081-1, -2 & AM3611**
****Includes: AM3183, AM3182-1, & -2**

PC 245

FAA/PMA Approved Replacement Parts for Slick-Type Magnetos

PC 245

Eisemann LA Series Magneto Handbook and Instructions

This manual contains service and overhaul information, exploded views and parts listings.

Part Number.....L-LAHB

Gascolator for Larger

PC 255

1/2" Fuel Lines

1/2" Gascolator with Metal Bowl and Quick Drain.

Gascolator for use with 1/2" fuel lines similar to U14330-002 except with large head for 1/2" fuel system.

Complete 1/2" Gascolator 1702*
1/2" Gascolator Head only 1700*
1/2" Gascolator Screen only 1701

*Requires Field Approval or STC call out.

PC 150

No matter what you need for your classic aircraft, Univair is prepared to help keep you flying! Our knowledgeable salespeople are waiting to answer your questions and to fill your order accurately and quickly. Call them at:

1 (888) 433-5433

INDUCTOR Magneto Svnchronizers

Space Age Electronics

This INDUCTOR Magneto Timing Device is a new concept utilizing the latest digital integrated circuitry, thus eliminating the need for the battery draining mechanical buzzer found in most of the older magneto timing lights. The timing indicators are light emitting diodes (L.E.D.s) rather than the commonly used incandescent bulbs, further extending battery life. Since the device measures change of inductance in the magneto coil, it will not give a false reading should the clip leads pop off or become shorted. The INDUCTOR can also be used as a relay coil tester to determine whether the coil is functioning.

Size

One of the INDUCTOR's most convenient features is its compact size. It measures 3/4 by 3 by 5 inches and is packaged in an anodized aluminum case that will neither melt nor break. It fits into the mechanic's tool box or shirt pocket and weighs only nine ounces.

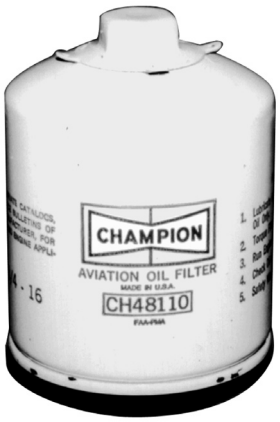
Power

The INDUCTOR is powered by a 9-volt Duracell® battery. With the inherent low power drain of the device and prudent use of the on-off switch, the battery should function for as long as its shelf life. If the L.E.D.s fail to toggle when the magneto points open or close, it is an indication that the battery needs changing.

Single Magneto Synchronizer Model.....AA001
Dual Magneto Synchronizer Model.....AA002
Single Magneto Synchronizer with Tweeter*...AA003
Dual Magneto Synchronizer with Tweeter *....AA004

* These Synchronizer models with a tweeter, provide audio as well as visual indication of operation.

PC 699



Call (303-375-8882) or write Univair for price and availability of the Oil Filter Assembly and Engine Adapter.

The only FAA Approved pure lubricant.

-Control damaging rust and corrosion in your engine.
-Provide positive lubrication and prevent dry engine starts.
-Keep new and rebuilt engines dimensionally correct.
-Control critical engine temperatures.
-Prevent unnecessary maintenance expense caused by premature wear.
-Restore performance to engines with accumulated hours.

Single 12 oz. can AVBLEND-1
Pack of 4-12oz. cans AVBLEND-4

PC 299

Oil Filter Application Chart

Model	Engine Model	Spin-On Filter		Element
Aero Commander Aircraft Single Engine				
100, Darter	O-320	CH48110		CFO-100
112	IO-360	CH48103		CFO-100
AG, A-9 Sparrow	O-540	CH48110		CFO-100
Beech Single Engine Models				
Bonanza				
E33A, F33A, F33C	IO-520	CH48109		CFO-100
S35, V35, V35A, V35B	IO-520	CH48109		CFO-100
V35TC, V35A-TC, V35B-TC	TSIO-520	CH48109		CFO-100
Debonair				
C33A, E33A, E33C	IO-520	CH48109		CFO-100
Musketeer		**With Stud**	**Without Stud**	
Sport III	O-320	CH48110	CH48103	CFO-100
23	O-320	CH48110	CH48103	CFO-100
A23-19, 19A, B19	O-320	CH48110	CH48103	CFO-100
A23, 23, A23A	IO-346	CH48110	CH48103	CFO-100
B23, C23	O-360	CH48110	CH48103	CFO-100
Cessna Single Engine Models				
150	O-200	CH48110	CH48103	CFO-100
F150	O-200	CH48110	CH48103	CFO-100
A150	O-200	CH48110	CH48103	CFO-100
FA150	O-200	CH48110	CH48103	CFO-100
172	O-300	CH48110	CH48103	CFO-100
172	O-320	CH48110	CH48103	CFO-100
F172	O-300	CH48110	CH48103	CFO-100
177	O-320	CH48110	CH48103	CFO-100
FR172	IO-360	CH48110	4CH8103	CFO-100
180	O-470	CH48110	CH48103	CFO-100
182	O-470	CH48110	CH48103	CFO-100
A182	O-470	CH48110	CH48103	CFO-100
185	IO-470, IO-520	CH48110	CH48103	CFO-100
A185	IO-470, IO-520	CH48110	CH48103	CFO-100
188	O-470, O-520	CH48110	CH48103	CFO-100
205	IO-470	CH48110	CH48103	CFO-100
206	IO-520	CH48110	CH48103	CFO-100
U206	IO-520	CH48110	CH48103	CFO-100
TU206	TSIO-520	CH48110	CH48103	CFO-100
P206	IO-520	CH48110	CH48103	CFO-100
TP206	TSIO-520	CH48110	CH48103	CFO-100
207	IO-520	CH48110	CH48103	CFO-100
T207	TSIO-520	CH48110	CH48103	CFO-100
210	IO-470, IO-520	CH48110	CH48103	CFO-100
T210	TSIO-520	CH48110	CH48103	CFO-100
Mooney Aircraft				
M20	O-320	CH48110	CH48103	CFO-100
M20A, M20B, Mark 21, M20D Master	O-360	CH48110	CH48103	CFO-100
201 Chaparral	IO-360	CH48110	CH48103	CFO-100
222 Mark	TIO-541	CH48110	CH48103	CFO-100
Piper Single Engine Models				
Tri-Pacer				
PA-22 "150"	O-320	CH48110	CH48103	CFO-100
PA-22 "160"	O-320	CH48110	CH48103	CFO-100
Comanche				
PA-24 "180"	O-360	CH48110	CH48103	CFO-100
PA-24 "250"	O-540 or IO-540	CH48110	CH48103	CFO-100
PA-24B, PA-24C "260"	O-540	CH48110	CH48103	CFO-100
PA-24B, PA-24C "260"	IO-540	CH48110	CH48103	CFO-100
PA-24 Turbo "260"	IO-540	CH48110	CH48103	CFO-100
Pawnee				
PA-25 "150"	O-320	CH48110	CH48103	CFO-100
PA-25 "260"	O-540	CH48110	CH48103	CFO-100
Cherokee				
PA-28 "140"	O-320	CH48110	CH48103	CFO-100
PA-28 "150"	O-320	CH48110	CH48103	CFO-100
PA-28 "160"	O-320	CH48110	CH48103	CFO-100
PA-28 "180"	O-360	CH48110	CH48103	CFO-100
PA-28 "235"	O-540	CH48110	CH48103	CFO-100
Arrow				
PA-28R "180"	IO-360	CH48110	CH48103	CFO-100
PA-28R "200"	IO-360	CH48110	CH48103	CFO-100
Cherokee Six				
PA-32 "260"	O-540	CH48110	CH48103	CFO-100
PA-32 "300"	IO-540	CH48110	CH48103	CFO-100

Auburn and Champion Spark Plug Cross Reference

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- **U.S. aircraft and engines**

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If you require a spark plug that is **NOT LISTED,** please call Univair at **1 (888) 433-5433** for price and availability.

Aircraft	Number of Spark Plugs per Engine	Champion Spark Plugs 3/4 in. x 20	Champion Spark Plugs 5/8 in. x 24	AC & Auburn Spark Plugs 3/4 in. x 20	AC & Auburn Spark Plugs 5/8 in. x 24
AERONCA / CHAMPION / DECATHLON / SCOUT					
7AC-S7AC					A88*
Continental A-65 (65 hp.)	8	HM41E	**REM40E**	HSR88	**SR88**
7DC, S7DC			REM37BY		A88*
Continental C-85-8 (85 hp.)	8	HM41E	**REM40E**	HSR88	**SR88**
S7CCM, 7EC, S7EC, 7FC, 7JC			REM37BY		A88*
Continental C-90-12 (90 hp.)	8	HM41E	**REM40E**	HSR88	**SR88**
7GC, 7HC		HM41E	REM37BY	HSR88	**SR88**
Lycoming O-290-D (135 hp.)	8	RHM40E	**REM40E**	HSR87	SR87
7GCA, 7GCB, 7GCBA, 7GCAA, 7GCBC, 7KC	8	HM41E		HSR88	**SR88**
Lycoming O-320-A (150 hp.)		RHM40E	**REM40E**	HSR87	SR87
7ACA					
Franklin 2A-120-B	4	**RHB32E**			
7ECA		HM41E		HSR88	**SR88**
Lycoming O-235-C (108 hp.)	8	RHM40E	**REM40E**	HSR87	SR87
7ECA		HM41E			A88*
Continental O-200 (100 hp.)	8	RHM40E	**REM40E**	HSR88	**SR88**
7ECA			REM37BY		
Lycoming O-235-K (118 hp.)	8	RHM38E	**REM38E**	HSR86	**SR86**
7KCAB					
Lycoming IO-320-E (150 hp.)	8	HM41E		HSR88	**SR88**
AEIO-320-E (150 hp.)		RHM40E	**REM40E**	HSR88	**SR88**
8KCAB					
Lycoming IO-320-E (150 hp.)		HM41E		HSR88	**SR88**
Lycoming AEIO-320-E (150 hp.)	8	RHM40E	**REM40E**	HSR88	**SR88**
8GCBC Super Scout		RHM40E	REM40E	HSR88	**SR88**
Lycoming O-360-C Series (180 hp.)	8	RHM38E	**REM38E**	HSR87	SR87
8KCAB		RHM40E	REM40E		
Lycoming AEIO-360-H1A (180 hp.)	8	RHM38E	**REM38E**	HSR88	**SR88**
BELLANCA					
14-13 Series					
Franklin 6A4-150 (150 hp.)	12		**REJ38**		
Franklin 6A4-165 (165 hp.)			**REJ38**		A44**
14-19		HM41E		HSR88	**SR88**
Lycoming O-435-A (190 hp.)	12	RHM40E	**REM40E**	HSR87	SR87
14-19-3, 14-19-3A, 260B					
Continental IO-470-F (260 hp.)	12	**RHB32E**			

*** A88 plug is no longer available from Univair.** ****A44 plug is unshielded and has no resistor.**

Auburn and Champion Spark Plug Cross Reference (continued)

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Aircraft	Number of Spark Plugs per Engine	Champion Spark Plugs 3/4 in. x 20	Champion Spark Plugs 5/8 in. x 24	AC & Auburn Spark Plugs 3/4 in. x 20	AC & Auburn Spark Plugs 5/8 in. x 24
CESSNA					
120-140					A88*
Continental C-85 (85 hp.)	8	HM41E	**REM40E**	HSR88	**SR88**
Continental C-90 (95 hp.)			REM37BY		
150-A thru 150-M					A88*
Continental O-200-A (100 hp.)	8	HM41E	**REM40E**	HSR88	**SR88**
			REM37BY		
152, F152		RHM40E	REM40E		
Lycoming O-235-L2C (110 hp.)	8	RHM38E	REM38E		
			REM37BY	HSR86	**SR86**
170		HM41E			A88*
Continental O-145 (145 hp.)	12	RHM40E	**REM40E**	HSR88	**SR88**
			REM37BY		
170-A, 170-B		HM41E			A88*
Continental O-300 (145 hp.)	12	RHM40E	**REM40E**	HSR88	**SR88**
			REM37BY		
172-A thru 172-H Skyhawk		HM41E			A88*
Continental O-300 (145 hp.)	12	RHM40E	**REM40E**	HSR88	**SR88**
			REM37BY		
172-I thru 172-L Skyhawk		HM41E		HSR88	**SR88**
Lycoming O-320-E (150 hp.)	8	RHM40E	**REM40E**	HSR87	SR87
172-N, F172-N Skyhawk/100		RHM40E	REM40E	HSR88	**SR88**
Lycoming O-320-H1AD (160 hp.)	8	**RHM38E**	REM38E	HSR87	SR87
172-P Skyhawk		RHM40E	**REM40E**	HSR88	**SR88**
Lycoming O-320-D2J (160 hp.)	8	RHM38E	REM38E	HSR87	SR87
P172 Powermatic		RHM40E	**REM40E**	HSR87	**SR87**
Continental GO-300-E (175 hp.)	12	RHM38E	REM38E		
			REM37BY		
R172-K, FR172-K, Hawk XP					
Continental IO-360-K (195 hp.)	12	RHM38E	**REM38E**	HSR86	SR86
172 RG "Cutlass RG"		RHM40E	REM40E	HSR88	SR88
Lycoming O-360-F1AD (180 hp.)	8	RHM38E	REM38E	HSR87	**SR87**
175-A, 175-B, 175-C Skylark		RHM40E	**REM40E**		
Continental GO-300-A, -C, -D, -E (175 hp.)	12	RHM38E	REM38E	HSR87	**SR87**
			REM37BY		
175					
Franklin 6A-335-B (180 hp., Franklin conversion)	12	RHB32E			
177 Cardinal		HM41E		HSR88	SR88
Lycoming O-320-E (150 hp.)	8	RHM40E	**REM40E**	HSR87	SR87
177-A, 177-B Cardinal		RHM40E	REM40E	HSR88	SR88
Lycoming O-360-A1F6D (180 hp.)	8	RHM38E	**REM38E**	HSR87	**SR87**
Cardinal RG					
Lycoming IO-360-A1B60 (200 hp.)	8	**RHM38E**	REM38E	HSR86	SR86
180		HM41E		**HSR88**	SR88
Continental O-470-A thru O-470-J (225 hp.)	12	RHM40E	**REM40E**	HSR87	SR87

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Auburn and Champion Spark Plug Cross Reference (continued)

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CESSNA (continued)					
180-A thru 180-D		HM41E		**HSR88**	SR88
Continental O-470-K, O-470-L (230 hp.)	12	RHM40E	**REM40E**	HSR87	SR87
180-E, -F, -G, -H, -J		HM41E		**HSR88**	SR88
Continental O-470-R, O-470-S (230 hp.)	12	**RHM40E**	**REM40E**	HSR87	SR87
180-K					
Continental O-470-U (230 hp.)	12	**RHB32E**			
180					
Continental O-470-U, SN 53087 and up (230 hp.)	12	**RHB32E**			
182-A, 182-B, 182-C, 182-D		HM41E		**HSR88**	SR88
Continental O-470-L (230 hp.)	12	RHM40E	**REM40E**	HSR87	SR87
182-E thru 182-P Skylane		HM41E		**HSR88**	SR88
Continental O-470-R, O-470-S (230 hp.)	12	**RHM40E**	**REM40E**	HSR87	SR87
182-Q, -R, F182-Q, -R Skylane					
Continental O-470-U (230 hp.)	12	RHB32E			
R182, FR182 Skylane RG		RHM40E	REM40E	HSR88	**SR88**
Lycoming O-540-J3C5D (235 hp.)	12	RHM38E	REM38E	HSR87	SR87
182					
Continental O-470-U, SN 67042 and up (230 hp.)	12	**RHB32E**			
ERCOUPE SERIES					
Aircoupe - Forney F1 and F1A					A88*
Continental C-90-16-F (95 hp.)	8	HM41E	**REM40E** REM37BY	HSR88	**SR88**
Alon - A2 and A2A					A88*
Continental C-90-16-F (95 hp.)	8	HM41E	**REM40E** REM37BY	HSR88	**SR88**
Ercoupe 415-C, -D, -C/D, -E, -G					A88*
Continental C-75, -85, -90, O-200 (STC conversion)	8	HM41E	**REM40E** REM37BY	HSR88	**SR88**
Mooney M-10					A88*
Continental C-90 (95 hp.)	8	HM41E	**REM40E** REM37BY		**SR88**
LUSCOMBE					
8 Series				HSR88	A88*
Continental C-65, C-85	8	HM41E	**REM40E** REM37BY		**SR88**
PIPER					
Cub J-3, J-4, J-5, PA-11, PA-17					A88*
Continental A-65 (65 hp.) and C-75 (75 hp.)	8	HM41E	**REM40E** REM37BY	HSR88	**SR88**
J-3, J-4, PA-15					A88*
Lycoming O-145 (65 hp.)	8	HM41E	**REM40E** REM37BY	**HSR88**	**SR88**
PA-12, PA-14, PA-16		HM41E		HSR88	**SR88**
Lycoming O-235 (115 hp.)	8	RHM40E	**REM40E**	HSR87	SR87

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PIPER (continued)					
Super Cub PA-18 "95"					A88*
Continental C-90 (95 hp.)	8	HM41E	**REM40E**	HSR88	SR88
PA-18 "105"		HM41E	REM37BY	HSR88	**SR88**
Lycoming O-235 (105 hp.)	8	RHM40E	**REM40E**	HSR87	SR87
PA-18 "125"		HM41E		HSR88	**SR88**
Lycoming O-290-D (125 hp.)	8	RHM40E	**REM40E**	HSR87	SR87
PA-18 "135"		HM41E		HSR88	**SR88**
Lycoming O-290-D2 (135 hp.)	8	RHM40E	**REM40E**	HSR87	SR87
PA-18 "150"		HM41E		HSR88	**SR88**
Lycoming O-320-A (150 hp.)	8	RHM40E	**REM40E**	HSR87	SR87
Pacer PA-20 "115"		HM41E		HSR88	**SR88**
Lycoming O-235-C (115 hp.)	8	RHM40E	**REM40E**	HSR87	SR87
PA-20 "125"		HM41E		HSR88	**SR88**
Lycoming O-290-D (125 hp.)	8	RHM40E	**REM40E**	HSR87	SR87
PA-20 "135"		HM41E		HSR88	**SR88**
Lycoming O-290-D2 (135 hp.)	8	RHM40E	**REM40E**	HSR87	SR87
Tri-Pacer PA-22 "135"		HM41E		HSR88	**SR88**
Lycoming O-290-D2 (135 hp.)	8	RHM40E	**REM40E**	HSR87	SR87
PA-22 "150"		HM41E		HSR88	**SR88**
Lycoming O-320-A (150 hp.)	8	RHM40E	**REM40E**	HSR87	SR87
PA-22 "160"		RHM40E	**REM40E**	HSR88	**SR88**
Lycoming O-320-B (160 hp.)	8	RHM38E	REM38E	HSR87	SR87
Apache PA-23 "150"		HM41E		HSR88	**SR88**
2/Lycoming O-320-A (150 hp.)	8	RHM40E	**REM40E**	HSR87	SR87
PA-23 "160"		RHM40E	**REM40E**	HSR88	**SR88**
2/Lycoming O-320-B (160 hp.)	8	RHM38E	REM38E	HSR87	SR87
PA-23 "235"		HM41E			A88*
2/Lycoming O-540-B (235 hp.)	12	RHM40E	**REM40E**	HSR88	**SR88**
Aztec PA-23 "250"		RHM40E	REM40E		A88*
2/Lycoming O-540-A (250 hp.)	12	RHM38E	REM38E	HSR88	**SR88**
				HSR87	SR87
Aztec C, D, E, F PA-23 "250"		RHM40E	REM40E	HSR88	**SR88**
2/Lycoming IO-540-C (250 hp.)	12	RHM38E	REM38E	HSR87	SR87
Aztec—Turbo-Blown		RHB37E			
2/Lycoming IO-540-J (250 hp.)	12				
Aztec C, D, E, F PA-23 "250"		RHB37E			
2/Lycoming TIO-540-C (250 hp.)	12				
Commanche PA-24 "180"		RHM40E	REM40E	HSR88	SR88
Lycoming O-360-A (180 hp.)	8	RHM38E	**REM38E**	HSR87	**SR87**

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PIPER (continued)					
PA-24 "250"		RHM40E	REM40E	HSR86	SR86
Lycoming O-540-A, IO-540-C (both 250 hp.)	12	RHM38E	REM38E		
PA-24 "260", PA-24 B and C					
Lycoming IO-540-B, -D, -N (260 hp.)	12	RHM38E	REM38E	HSR86	SR86
PA-24 "260" Turbo		RHB37E			
Lycoming IO-540-R1A5 (260 hp.)	12				
PA-24 "400"					
Lycoming IO-720-A (400 hp.)	16	**RHM38E**		HSR86	SR86
Pawnee PA-25 "150"		HM41E		HSR88	**SR88**
Lycoming O-320-A (150 hp.)	8	RHM40E	**REM40E**	HSR87	SR87
PA-25 "235"		HM41E			
Lycoming O-540-B (235 hp.)	12	RHM40E	**REM40E**	HSR88	**SR88**
PA-25 "260"		RHM40E	REM40E	HSR88	**SR88**
Lycoming O-540-G (260 hp.)	12	RHM38E	**REM38E**	HSR87	SR87
STINSON					
108 Series			**REJ38**		
Franklin 6A4-150 (150 hp.), 6A4-165 (165 hp.)	12				A44**
108-5					
Franklin 6A4-335-B1 (180 hp.)	12	**RHB32E**			
108 Series Stinson		HM41E			A88*
Lycoming O-435-C (190 hp.,	12	RHM40E	**REM40E**	HSR88	**SR88**
STC conversion)				HSR87	SR87
108 Series Stinson		HM41E		**HSR88**	SR88
Continental O-470-A (225 hp., STC conversion)	12	RHM40E	**REM40E**	HSR87	SR87
108-3					
Franklin 6A4-350-C1 (STC conversion)	12				
108 Series Stinson		RHM40E		HSR88	SR88
Lycoming O-360-A1A (180 hp., STC conversion)	8	RHM38E	**REM38E**	HSR87	**SR87**
108 Series Stinson					
Lycoming IO-360-A1A (200 hp., STC conversion)	8	RHM38E	**REM38E**	HSR86	SR86
TAYLORCRAFT					
B Series					A88*
Continental C-65 (65 hp.)	8	HM41E	**REM40E** REM37BY	HSR88	SR88
F-19		HM41E			A88*
Continental O-200 (100 hp.)	8	RHM40E	**REM40E** REM37BY	HSR88	SR88

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Univair's Toll Free Sales: 1 (888) 433-5433

General Spark Plug Cross Reference

Auburn Spark Plugs	Champion Spark Plugs
14mm	
SA43*	REJ38
A44**	J43
SR47P	REL37W
18mm Fine Wire (Long Reach)	
181	REB36W, REB36P
281	RHB36P
291	RHB36W
283	RHB32
293	RHB32W
286	—
18mm Fine Wire (Short Reach)	
SR83P	REM38P
HSR83P	RHM38P
SR93	REM38S
HSR93	RHM38W
18mm Massive Electrode (Short Reach)	
A88*	M41E, M42E
S88	EM42E
HS88	HM41E
SR88	REM40E
HSR88	RHM40E
SR87	REM38E
HSR87	RHM38E
SR86	REM38E
HSR86	RHM38E
18mm Massive Electrode (Long Reach)	
171	REB37E, REB37N
271	RHB37N, RHB37E, RHB38E
172	REB87N
273	RHB32N, RHB32E, RHB33E
175	REB29N
275	RHB29N, RHB29E

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Miscellaneous Spark Plugs—While Supply Lasts!

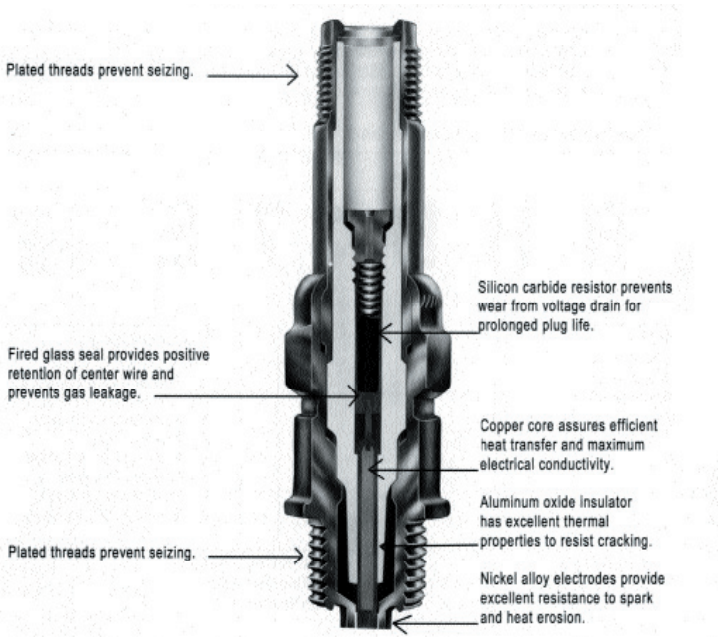
AC Spark Plugs
LS87
LS86

Champion Spark Plug:
RHB36P
(Fine Wire)

REA37N

BG Spark Plug:
BG417

Champion Spark Plugs — Inside a Spark Plug



Advanced-engineered Champion aviation spark plugs are designed for the critical difference in performance, far beyond the ordinary. Champion aviation spark plugs stand up to high temperatures, pressures and lead deposits, with a performance second to none. When you're up in the air, count on quality Champion spark plugs.

The #1 Choice Worldwide - OEM for all U.S. Piston Engines

Champion spark plugs are a product of Champion Spark Plug Company's commitment to quality and advanced technology, a commitment that has made Champion spark plugs the #1 choice of engine manufacturers, maintenance technicians and pilots around the world.

Aero Accessories' Centurion Fuel Pump

FAA/PMA Approved Direct Replacement

Continental Engine	Aero Accessories	TCM	A/C Type
A-65, 8, 8F	**AF-40585**	40585	9051/9867
C-75, 12, 12F	**AF-40695**	40695	9076/4036
C-85, 8, 12	**AF-40585**	40585	9051/9867
C-90, 8, 8F, 12, 12F	**AF-40695**	40695	9076/4036
C-90-14F **	**	**	**
C-90, 16F *	**AF-631391**	631391	6861
0-200 *	**AF-631391**	631391	6861
A-75	**AF-40585**	40585	9051/9867
A-100	**AF-40585**	40585	9051/9867
C-125, 2	**AF-40585**	40585	9051/9867
C-145, 2, 2H	**AF-40585**	40585	9051/9867

* Uses camshaft P/N 626608 or supersedure to which P/N 630403 or supersedure Gear and Eccentric has been assembled. REFERENCE CONTINENTAL SERVICE BULLETIN M-76-15

** See aircraft and engine manual. This engine may use either AC part numbers 9867 or 9076. TCM part numbers 40585 or 40695. Aero Accessories part numbers AF-40585 or AF-40695.

PC 201

Airborne Pneumatic System Filters

Clean air is essential for satisfactory operation of gyros and other elements in a pneumatic system, and Airborne filters provide effective barriers to contaminants. In this way, they provide an extra margin of protection against air pump overheating or unreliable system operation.

It's important to remember, however, that the more efficient the filter, the dirtier it gets and the greater the need to replace it. (Both inline and inlet Airborne filters utilize 0.3-micron filtration elements). Accordingly, the recommended course is to choose Airborne filters for their efficiency and to maintain that efficiency with a regular filter element replacement program.

In this way, you'll reduce aircraft net operating cost by prolonging gyro life and instrument serviceability.

In-Line Filters for Pressure Systems

1J1 Series

Provides a limited level of inlet air contamination protection. Bulkhead fittings with beaded tube ports simplify mounting through firewalls and baffle plates.

Part Number.....1J1-3
Filter replacement element Part Number.....B3-5-1

1J4 Series

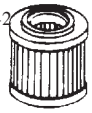
Insures a supply of clean air for all system components in pressure systems. Fabricated and sealed to prevent air loss or contamination. Replace entire filter assembly when change is needed.

Hose size	Overall Length	Part Number
1/2 X 1/2	5 3/4	1J4-4
5/8 X 5/8	6 3/4	1J4-6
5/8 X 5/8	5 1/2	1J4-7

Replacement Filter Elements

– Used in 1J2 Series Inlet Filter, except 1J2-2 (interchangeable with Cessna part number C294501-0103)
Part Number.....D9-14-5

– Used in 1J2-2 Inlet Filter Only
Part Number.....D9-14-3

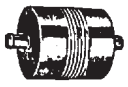


– Used in 1J7-1

Part Number.....D9-14-5

– Valve filter, fits all Series 133 and 2H3 regulating valves

Airborne Air Filter Replacement Schedule

Replacement Chart	Vacuum systems	Pressure systems
Change every 100 hours or annually, whichever comes first.	Vacuum regulator garter filter	Inlet Filter Element
Change annually or every 500 hours, whichever comes first.	Central air filter element	 Inline Filter

Filters for Pressure/Vacuum Systems

1J2 Series

For high-level air filtration, particularly in desert areas or dusty environments. Filter element is replaced simply by removing wing nut.

Filter Assembly Part Number.....1J2-1
Filter replacement element Part Number.....D9-14-5

Filters for Vacuum Systems

1J7-1

Widely used for all vacuum gyro systems. Re-placement elements available. Unit features 3/8-inch beaded tubes for two-gyro installation.

Filter Assembly Part Number.....1J7-1
Filter replacement element Part Number.....D9-18-1

1J7-2

Like 1J7-1 except for utilizing one single 3/8-inch beaded tube port.

Filter Assembly Part Number.....1J7-2
Filter replacement element Part Number.....D9-18-1

1J10-1

Central gyro air filter. Replace entire filter assembly at the proper time.

Part Number.....1J10-1

Pressure Regulating Valves

These devices operate by discharging excess air to maintain steady system pressure. No filters are needed because the valves release excess air overboard. Pressure range is 2 to 7 PSI.

3/4 inch X 5/8 inch Hose.....2H30-6
5/8 inch X 5/8 inch Hose.....2H30-9